ORDER NO.DSD0307011C7
B24

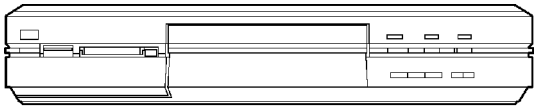
Service Manual

DVD Video Recorder

DMR-E100HP / DMR-E100HPC / DMR-E100HPL

Colour

(S).....Silver Type



When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.
In detail, please refer to each content in this service manual.

SPECIFICATIONS

Specifications

Power supply:	**AC120 V, 60 Hz**
Power consumption:	**42 W**
Recording system:	**DVD video recording standards (DVD-RAM), DVD video standards (DVD-R)**
Optical pick-up:	**System with 1 lens, 2 integration units (662 nm wavelength for DVDs, 790 nm wavelength for CDs)**
Recordable discs:	**12 cm 4.7 GB DVD-RAM discs** **12 cm 9.4 GB DVD-RAM discs** **8 cm 2.8 GB DVD-RAM discs** **12 cm 4.7 GB DVD-R discs (for General Ver. 2.0)** **8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)**
Recording time:	**Max. 6 hours**
(Using 4.7 GB disc):	**XP: 60 minutes** **SP: 120 minutes** **LP: 240 minutes** **EP: 360 minutes**

(Using built-in HDD):	**Max. 160 hours** **XP: 26 hours** **SP: 52 hours** **LP: 104 hours** **EP: 160 hours** **(HDD capacity 120GB)**
Region number:	**Region No.1**
Discs played:	**12 cm 4.7 GB DVD-RAM discs** **12 cm 9.4 GB DVD-RAM discs** **8 cm 2.8 GB DVD-RAM discs** **12 cm 4.7 GB DVD-R discs (for General Ver. 2.0)** **8 cm 1.4 GB DVD-R discs (for General Ver. 2.0)** **DVD-VIDEOdiscs** **CD-Audio discs (CD-DA)** **Video CD discs** **DVD-Audio discs** **CD-R/ CD-RW discs (CD-DA, Video CD, MP3 formatted discs)**
Video system	
TV system:	**NTSC system, 525 lines, 60 fields**
Recording system:	**MPEG2 (Hybrid VBR)/ MPEG4**
Input:	**LINE (pin jack) x3, 1.0 Vp-p; 75 Ω** **S connector x3** **Y: 1.0 Vp-p; 75 Ω** **C: 0.286 Vp-p; 75 Ω**
Output:	**LINE (pin jack) x2, 1.0 Vp-p; 75 Ω** **S connector x2** **Y: 1.0 Vp-p; 75 Ω** **C: 0.286 Vp-p; 75 Ω**
Component video output (480p/ 480i):	**Y: 1.0 Vp-p; 75 Ω** **PB : 0.7 Vp-p; 75 Ω** **PR : 0.7 Vp-p; 75 Ω**
D-connector output:	**Not provided**
Antenna reception input:	**TV Channel: 2ch-69ch, 75 Ω** **CATV Channel: 1ch-125ch, 75 Ω**
RF converter output:	**Not provided**
Audio system	
Recording system:	**Dolby Digital (XP/SP/LP/EP)** **LINEAR PCM (XP mode only)**

Input:	**LINE (pin jack) x3** **Reference input: 309 mVrms** **FS: 2 Vrms (1 kHz, 0 dB)** **Input impedance: 47 k Ω**
Output:	**LINE (pin jack) x2** **Reference output: 309 mVrms** **FS: 2 Vrms (1 kHz, 0 dB)** **Output impedance: 1 k Ω** **(Load impedance: 10 k Ω)**
Number of channels:	**Recording: 2 channels** **Playback: 2 channels**
Other input/output connectors:	**Digital audio optical output connector (PCM, Dolby Digital, DTS)**
Drive unit:	**High Speed Drive**
Card unit:	
@JPEG	
Card Slot:	**SD memory card/ PC Card Type U**
Compatible Media:	**SD memory card, A PC Card adaptor conforming to PC Card Standards ATA Flash PC Card, PC Card Adaptor (SD memory Card, MultiMedia Card, Compact Flash, Smart Media, Memory Stick, XD picture card, Micro drive),Mobile HDD**
Format:	**FAT12, FAT16**
Image Format:	**JPEG DCF (Design rule for camera file System)** **(subsampling: 4:2:2 or 4:2:0)** **TIFF (Uncompressed RGB chunky)** **DPOF Compatible Number of Pixels 320x240-6144x4196**
Thawing Time:	**Approx. 7sec (2Mpixels)**
ASD Video (MPEG4)	
Card Slot:	**SD memory card/ PC Card Type U**
Compatible Media:	**SD memory card, Multi media card, (SD slot only) Mobile HDD (PC slot only, read only)**
Video recording system:	**MPEG4 conforming**
Number of pixels:	**super fine/ fine 320x240 (QVGA) normal/ economy 176x144 (QCIF)**
Video transfer rate:	**super fine 1050kbps, fine 430kbps, normal 300kbps, economy 100kbps**
Audio recording system:	**G.726 conforming**
Audio transfer rate:	**32kbps**

BSD Video (MPEG2)	*After VR conversion and transfer to HDD, the playback is possible.
Card Slot:	SD memory card
Compatible Media:	SD memory card, Multi media card, (SD slot only), Mobile HDD (PC slot only read only)
Format:	MPEG2 (SD-Video Entertainment Video Profile) (VR conversion and transfer to HDD only)
DV Input:	IEEE1394 Standard, 4pin
Dimensions:	Approx. 430 (W)×79 (H)×296 (D) mm [Approx. 16 15/16 "(W)×3 1/8 " (H)×11 11/16 " (D)] (excludingprotrusions)
Mass:	Approx. 5.5 kg (12.13 lbs)
Operating temperature range:	5 °C-40°C (41 °F-104 °F)
Operating humidity range:	10 %-80 % RH (no condensation)
Clock unit:	Quartz-controlled 12-hour digital display

LASER Specification

Class I LASER Product

Wave length:	775-815 nm 655-666 nm
Laser power:	No hazardous radiation is emitted with the safety protection.

Power consumption in standby mode:

approx. 3.5 W

Solder:

This model uses lead free solder (PbF).

Notes:

Mass and dimensions are approximate.

Specifications are subject to change without notice.

Notes:

The part of DVD RAM Drive (VXY1789) is listed separately.

Please refer to ORDER NO. RAM0307003C0.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. SAFETY PRECAUTIONS

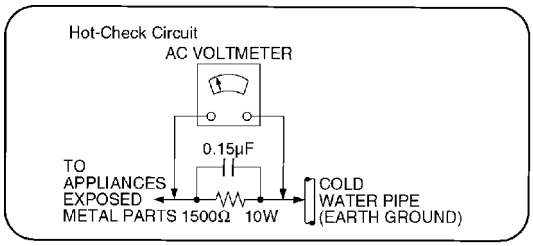
1.1. GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to

measure the potential across the resistor.

4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current mu3st not exceed 1/ 2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

2. PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**

5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION:

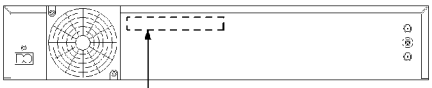
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 775-815 nm/655-666 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

ACHTUNG:

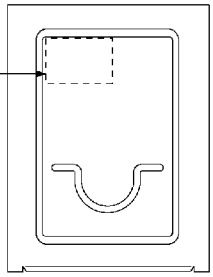
Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 775-815 nm/655-666 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
Matsushita Electric Iudustrial Co., Ltd.
Kadoma, Osaka, Japan

DANGER – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION – RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO! – AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING – SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注意 – 打开时有可见及不可见激光辐射。避免激光束照射。
注意 – ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。
RQLS0233



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top cover and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.
(As shown in 15.2.1. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2032-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:
P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).

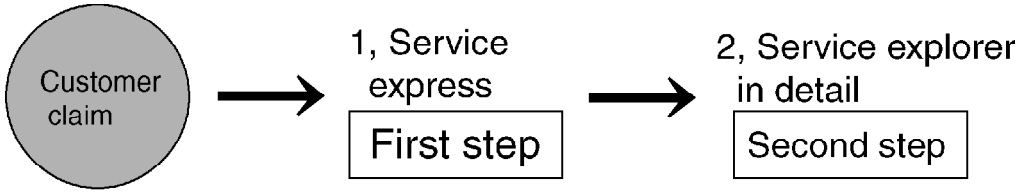
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).

- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Service Explorer

When replacing with Digital P.C.B. or HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, programme in the HDD will be lost.
- How to format the HDD -
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.
2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

The Service Explorer provides information about all possible causes based on the symptoms and gives step by step instructions making parts. It consists of two parts, based on applications: the first is the “Service Explorer Express” andthe second is “Service Explorer in Detail”.



1. For details about the service / test modesetting mentioned in the description, refer to the “List of various modes”.

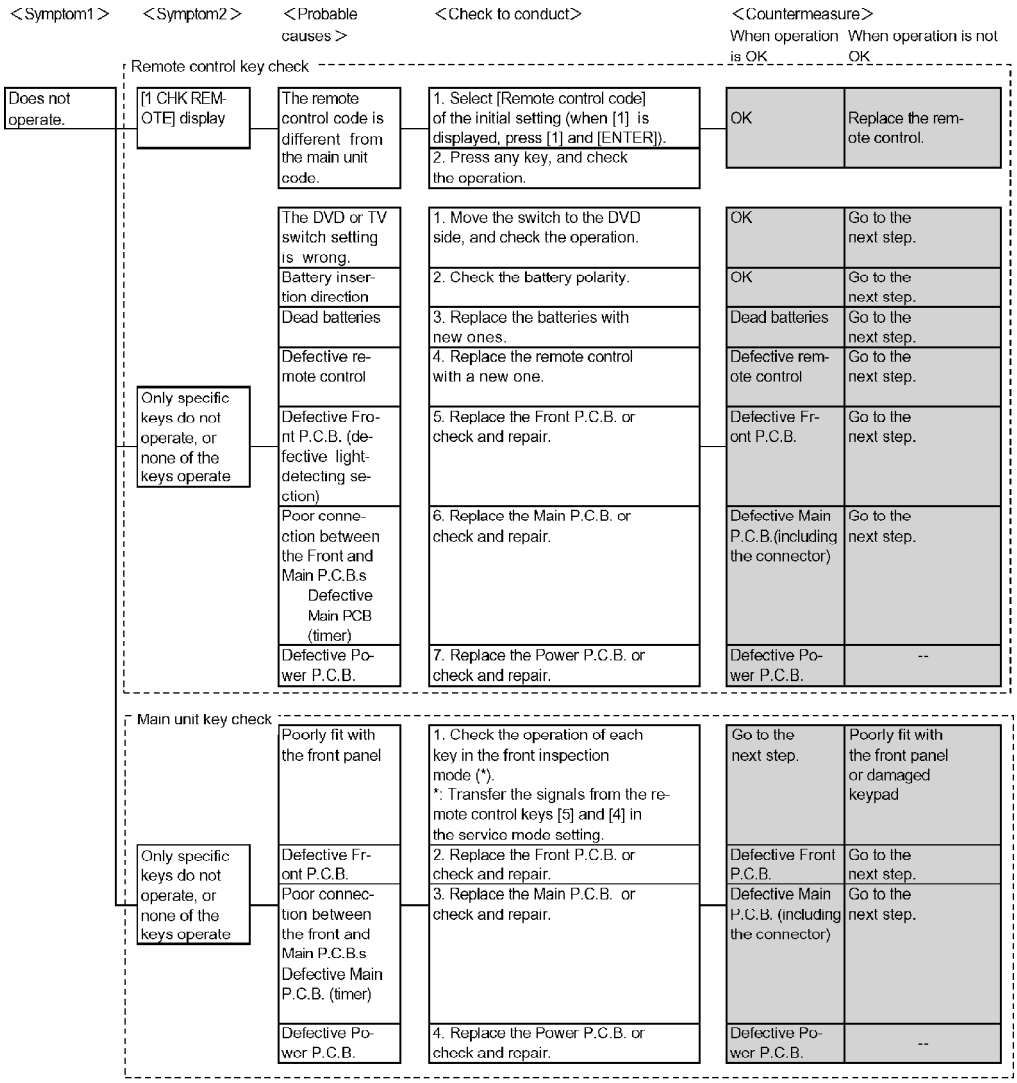
- **Service mode setting: While the power is off, press TIME SLIP, STOP, and OPEN / CLOSE simultaneously for five seconds.**
- **Process mode 1 setting: While the power is off, press SKIP(R), TIME SLIP, and OPEN / CLOSE simultaneously for five seconds.**

2. For disassembly and replacement procedures, refer to the “Assembling and Disassemling”.

6.1. Service Explorer Express

The following steps allow you to check each block separately (HDD, UART P.C.B., Digital P.C.B., RAM drive, Main / Power Supply / Front P.C.B.).
Items needed: RAM drive, Digital P.C.B., Digital extension cable, Remote control HDD, UART P.C.B..
Conditions: Nothing special.

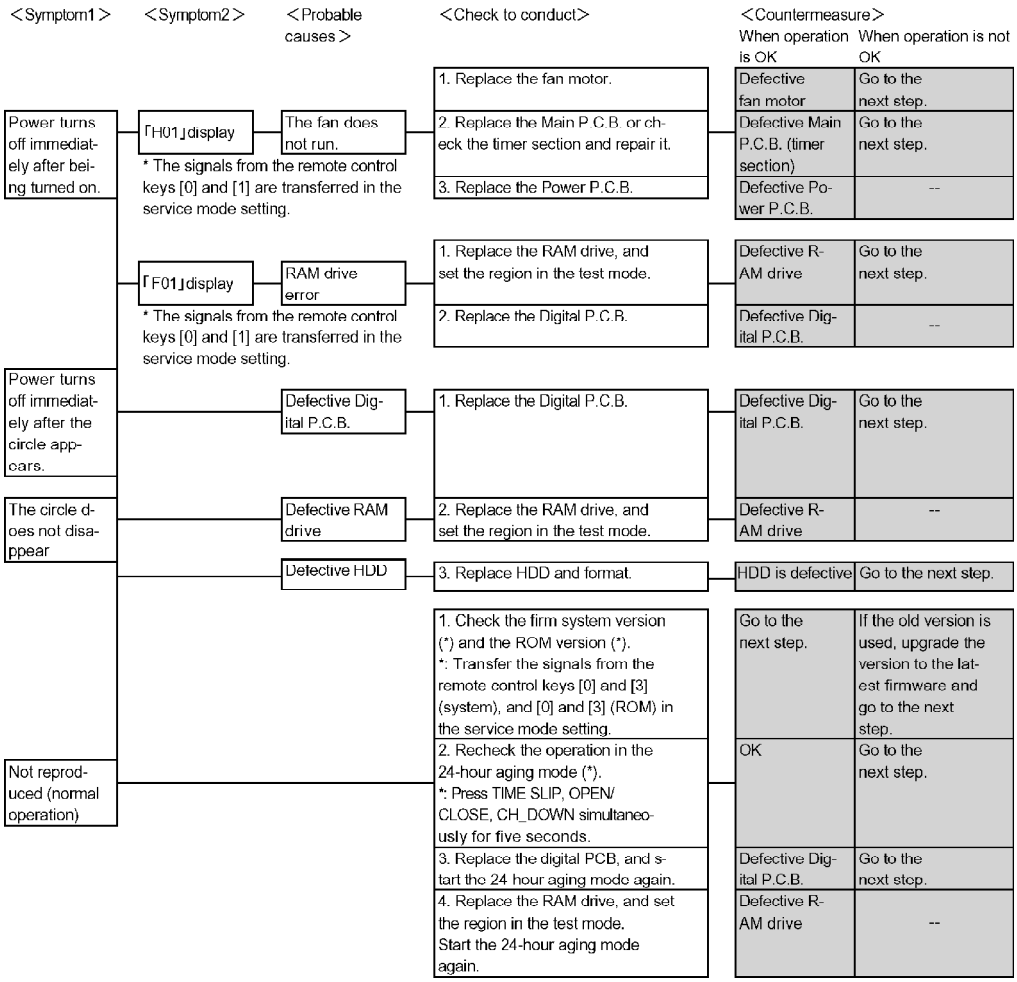
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Does not operate.		Defective HDD	1. Replace the HDD, and format. * If a problem occures in the RAM side,replace the HDD temporarily to prevent problems with the inspection / check operation.	Defective HDD	Go to the next step.
		Defective Digital P.C.B.	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
		Defective RAM drive	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Main/ Power/Front P.C.B..
	error code display	Problem with system operation	1. Press the Power switch for 10 seconds, and reset. Then, recheck the operation.	OK	Go to the next step.
	「U99」display	Defective Digital P.C.B.	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
		Defective RAM drive	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Main/ Power/Front P.C.B..
	「UNSUPPORT」display 「NO READ」display 「HARDERR」display	Unsupported disc	1. Insert a spare Panasonic DVD-RAM, and check whether the RAM is recognized.	OK	Go to the next step.
		Flawed or dirty disc	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	Go to the next step.
		RAM drive error	3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective RAM drive
	「U14」display	The temperature inside the RAM drive is too high. * Cannot operate for 30 minutes.	1. Check whether the fan motor is blocked or the room temperature is abnormally high.	Go to the next step.	Establish a normal environment and go to the next step.
			2. Leave it for two hours at a room temperature of 25°C, and then recheck it.	OK	Go to the next step.
			3. Replace the RAM drive, and set the region in the test mode.	Defective RAM drive	Defective Digital P.C.B.


<Symptom1>
<Symptom2>
<Probable causes>
<Check to conduct>
<Countermeasure>
When operation is OK
When operation is not OK
Remote control key check
Does not operate.
[1 CHK REMOTE] display
The remote control code is different from the main unit code.
1. Select [Remote control code] of the initial setting (when [1] is displayed, press [1] and [ENTER]).
2. Press any key, and check the operation.
OK
Replace the remote control.
The DVD or TV switch setting is wrong.
1. Move the switch to the DVD side, and check the operation.
OK
Go to the next step.
Only specific keys do not operate, or none of the keys operate
Battery insertion direction
2. Check the battery polarity.
OK
Go to the next step.
Dead batteries
3. Replace the batteries with new ones.
Dead batteries
Go to the next step.
Defective remote control
4. Replace the remote control with a new one.
Defective remote control
Go to the next step.
Defective Front P.C.B. (defective light-detecting section)
5. Replace the Front P.C.B. or check and repair.
Defective Front P.C.B.
Go to the next step.
Poor connection between the Front and Main P.C.B.s
Defective Main PCB (timer)
6. Replace the Main P.C.B. or check and repair.
Defective Main P.C.B.(including the connector)
Go to the next step.
Defective Power P.C.B.
7. Replace the Power P.C.B. or check and repair.
Defective Power P.C.B.
--
Main unit key check
Poorly fit with the front panel
1. Check the operation of each key in the front inspection mode (*).
*: Transfer the signals from the remote control keys [5] and [4] in the service mode setting.
Go to the next step.
Poorly fit with the front panel or damaged keypad
Only specific keys do not operate, or none of the keys operate
Defective Front P.C.B.
2. Replace the Front P.C.B. or check and repair.
Defective Front P.C.B.
Go to the next step.
Poor connection between the front and Main P.C.B.s
Defective Main P.C.B. (timer)
3. Replace the Main P.C.B. or check and repair.
Defective Main P.C.B. (including the connector)
Go to the next step.
Defective Power P.C.B.
4. Replace the Power P.C.B. or check and repair.
Defective Power P.C.B.
--
<Symptom1>
<Symptom2>
<Probable causes>
<Check to conduct>
<Countermeasure>
When operation is OK
When operation is not OK
Defective HDD
1. Replace the HDD, and format.
* If a problem occures in the RAM side, replace the HDD temporarily to prevent problems with the inspection / check operation.
If the HDD side is considered defective, HDD defective.
If the RAM side is considered defective, go to the next step.
Go to the next step.
Defective Main P.C.B.
2. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.
Go to the next step.
(The Main P.C.B. is OK.)
Defective Main P.C.B.
Poor picture and sound
Defective RAM drive
3. Move the digital extension cable switch to [Digital], transfer the signals from the remote control keys [1] and [3](EE2 mode) in the service mode setting.
Defective RAM drive
Go to the next step.

6.2. Service Explorer in Detail

6.2.1. Does not operate

items needed: RAM drive, digital P.C.B., remote control.
Conditions: Nothing special.


＜Symptom1＞
＜Symptom2＞
＜Probable causes＞
＜Check to conduct＞
＜Countermeasure＞
When operation is OK
When operation is not OK
Power turns off immediately after being turned on.
「H01」display
The fan does not run.
* The signals from the remote control keys [0] and [1] are transferred in the service mode setting.
1. Replace the fan motor.
Defective fan motor
Go to the next step.
2. Replace the Main P.C.B. or check the timer section and repair it.
Defective Main P.C.B. (timer section)
Go to the next step.
3. Replace the Power P.C.B.
Defective Power P.C.B.
--
「F01」display
RAM drive error
* The signals from the remote control keys [0] and [1] are transferred in the service mode setting.
1. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
Go to the next step.
2. Replace the Digital P.C.B.
Defective Digital P.C.B.
--
Power turns off immediately after the circle appears.
Defective Digital P.C.B.
1. Replace the Digital P.C.B.
Defective Digital P.C.B.
Go to the next step.
The circle does not disappear
Defective RAM drive
2. Replace the RAM drive, and set the region in the test mode.
Defective RAM drive
--
Defective HDD
3. Replace HDD and format.
HDD is defective
Go to the next step.
Not reproduced (normal operation)
1. Check the firm system version (*) and the ROM version (*).
*: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.
Go to the next step.
If the old version is used, upgrade the version to the latest firmware and go to the next step.
2. Recheck the operation in the 24-hour aging mode (*).
*: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.
OK
Go to the next step.
3. Replace the digital PCB, and start the 24 hour aging mode again.
Defective Digital P.C.B.
Go to the next step.
4. Replace the RAM drive, and set the region in the test mode.
Start the 24-hour aging mode again.
Defective RAM drive
--

6.2.2. Poor Pictures

Items needed: RAM drive, Digital P.C.B., RF cable, AV cable.

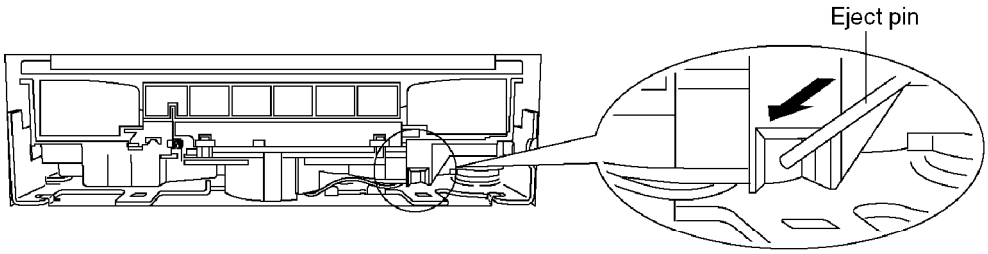
Conditions: Check with TU IN-AV OUT(EE). When recording or playback is partially needed, follow the instructions.

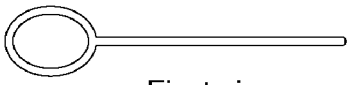
<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
Noise in the picture and sound. No picture color		The signal is too weak.	1.Confirm wheather connecting through VCR.	Go to the next step.	Connect to recorder directly.
		The tuner signal reception is too weak.	2. Reconnect the RF cable to TV, and check the picture and sound.	Go to the next step.	Poor signal reception
		The RF cable is badly damaged.	3. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		The AV cable is badly damaged.	4. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B..	5. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	6. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	7. Replace HDD, and format.	Defective HDD	Go to the next step.
No picture or sound is output.		Defective RF cable	1. Replace the RF cable, and check.	Defective RF cable	Go to the next step.
		Defective AV cable	2. Replace the AV cable, and check.	Defective AV cable	Go to the next step.
		Defective Main P.C.B.	3. Move the digital extension cable switch to [MAIN], install the original digital PCB and insert.	Go to the next step. (The Main PCB is OK.)	Defective Main P.C.B.
		Defective Digital P.C.B..	4. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	5. Replace HDD, and format.	Defective HDD	Go to the next step.
Picture and sound are not synchronized		Poor turner signal reception.	1. Select a different broadcast channel, and check.	Poor signal reception	Go to the next step.
		Defective Digital P.C.B..	2. Replace the Digital P.C.B..	Defective Digital P.C.B.	--
		Defective HDD	3.Replace HDD, and format.	Defective HDD	Go to the next step.
Block noise		Defective RAM drive, Digital P.C.B. and HDD.	1. Replace the RAM drive, and set the region in the test mode.	(Auto recording and playback) Defective RAM drive	Go to the next step.
			2. Replace the Digital P.C.B..	(Auto recording and playback) Defective Digital P.C.B.	--
			3. Replace HDD, and format.	Defective HDD	(Auto recording and playback) Go to the next step.
Not reproduced (normal operation)			1. Check the firm system version (*) and the ROM version (*). *: Transfer the signals from the remote control keys [0] and [3] (system), and [0] and [3] (ROM) in the service mode setting.	Go to the next step.	If the old version is used, upgrade the version to the latest firmware and go to the next step.
			2. Recheck the operation in the 24-hour aging mode (*). *: Press TIME SLIP, OPEN/CLOSE, CH_DOWN simultaneously for five seconds.	OK	Go to the next step.
			3. Replace the Digital PCB, and start the 24-hour aging mode again.	Defective Digital P.C.B.	Go to the next step.
			4. Replace the RAM drive, and set the region in the test mode. Start the 24-hour aging mode again.	Defective RAM drive	--

6.2.3. Other

Items needed: Digital P.C.B., HDD.
Conditions: Nothing special.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
No media can be played.		Erasing the AV ID	1. When the tray is open, press SKIP(R) and SKIP(L) simultaneously for five seconds.	When the operation is normal, it is OK. If it is abnormal, go to the next step.	Go to the next step.
The disc cannot be removed. (Sales demonstration LOCK)		Sales demonstration LOCK	1. Press the OPEN or CLOSE button, and make sure that the [LOCK] display is brought up. Then, when the power is on, press STOP and POWER simultaneously for five seconds.	If [UNLOCK] appears and the tray opens, it is OK.	--
The disc cannot be removed. (Malfunction)		The disc is stuck because the deck is not working properly.	1. When the power is off, press STOP and CH_UP simultaneously for five seconds.	If the tray opens, it is OK.	Go to the next step.
			2. Remove the front panel, remove the disk using an eject pin. (Refer to the following drawing.)	If the disc can be ejected, it is OK	Go to the next step.





Eject pin
(Part number : JZS0484)

Turn the gear with an eject pin.

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not OK
A timer program has not been created.	「F12」display	Timer program error (defective Main P.C.B.)	1. Replace the Main P.C.B. or check and repair. Check the timer program operation using the timer section.	Defective Main P.C.B.	--

* Transfer the signals from the remote control keys [0] and [1] in the service test setting.

6.2.4. Some defective functions

Items needed: PC card adaptor (media), Digital P.C.B.
conditions: Nothing special

<Symptom1>	<Symptom2>	<Probable causes>	<Check to conduct>	<Countermeasure> When operation is OK	When operation is not NG
The PC card does not operate		Poor seating of the PC card	1.Check whether [CARD] appears on the FL display	OK	Go to the next step.
		Defective PC card P.C.B.	2.insert recordable media and check the operation in the PC card inspection mode(*). *Transfer the signals from the remote control keys [7] and [1] in the service mode setting. 3.Insert recorded media and check the operation in the JPEG decode inspection mode(*). *Transfer the signals from the remote control keys [7] and [2] in the service mode setting.	OK	Go to the next step.
		Poor connection with the PC card	4.Remove the front panel, and make sure that the mechanical section and connector on the PC card slot are connected.	OK	Go to the next step.
		Defective Digital P.C.B.	5.Replace the Digital P.C.B.	Defective Digital P.C.B.	---

6.2.5. Caution when replacing the parts

1. RAM Drive

In case the unit does not operate normally after replacement of the RAM Drive with new one.

A. While power is off, press [SKIP (R)], [TIME SLIP] and [OPEN/ CLOSE] keys simultaneously for five seconds. Then the unit turns into “TEST Mode”, and the region code is stored on the new RAM Drive automatically.

FL Indication:

After few seconds, turn off the power and turn on the power again, then the unit operates normally.

Note:
In this case, all parameters are initialized.

2. Timer Microprocessor (IC7501)

In case the unit does not operate normally after replacement of the Timer Microprocessor with new one.

A. While power is ON, short IC7505-1 pin (RESET) and the GND in order to transmit the “RESET (L)” to the reset terminal of Timer Microprocessor (IC7501-18 pin), then the unit operates normally.

7. Standard Inspection Specifications after Making Repairs

7.1. Standard Inspection Specification

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power.	The Panasonic RAM disc should be recog
2	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the pict sound or operation.
3	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the pict sound or operation.
4	Model with the HDD : Perform auto recording and playback for one minute using the HDD	No abnormality should be seen in the pict sound or operation.
5	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the pict sound or operation.
6	In case of that the trouble is caused by SD/PC card and/or DV terminal.	1) SD/PC card: Check to be able to displa copy the picture. 2) DV terminal: Check to be able to record DVC.
7	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears FL displays.
8	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [FACT INIT] appears in the display. After checking it, turn the power off.
9	To replace the RAM drive, reset all the information (including the laser time) in the process mode 1 setting. *The laser time is the total time that DVDs or CDs have been played or recorded.It is recorded on the Digital P.C.B..	Maku sure that [TEST L1] appears in the F display. After checking it, turn the power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents
Picture	Block noise		Sound	Distorted sound
	Crosscut noise			noise (static, background noise, etc.)
	Dot noise			The sound level is too low.
	Picture disruption			The sound level is too high.
	Not bright enough			The sound level changes.
	Too bright			
	Flickering color			
	Color fading			

7.2. Adjustment Procedures

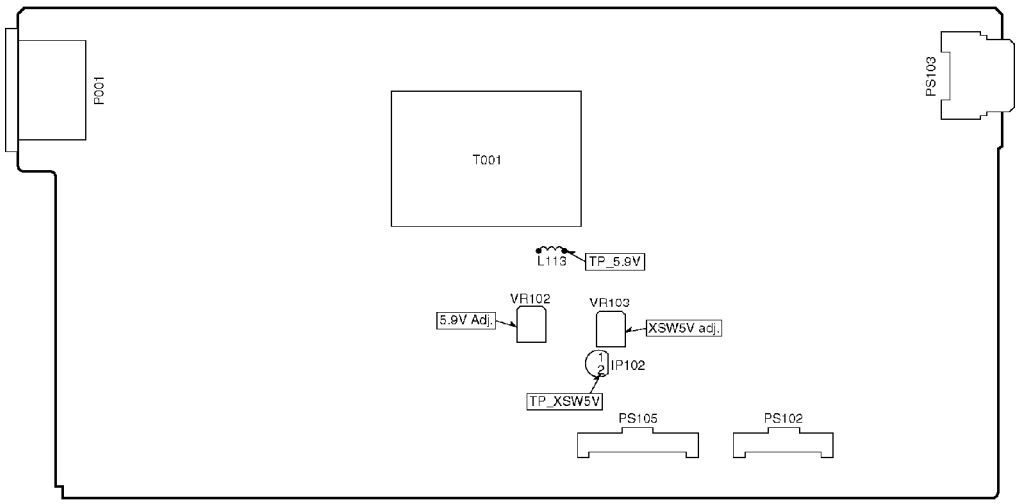
7.2.1. Power Supply Adjustment

1. When change the Power Supply P.C.B. or parts on Power Supply P.C.B., confirm the power voltages are in the specification shown

below. If the voltages are out of specification, adjust the voltages are in the specification as shown below.

Adj. Item	Adj.	Test Point	Adjustment Value
5.9V Adjustment	VR102	5.9V - GND	5.80 ~ 5.95V
XSW5V Adjustment	VR103	XSW5V - GND	5.00 ~ 5.15V

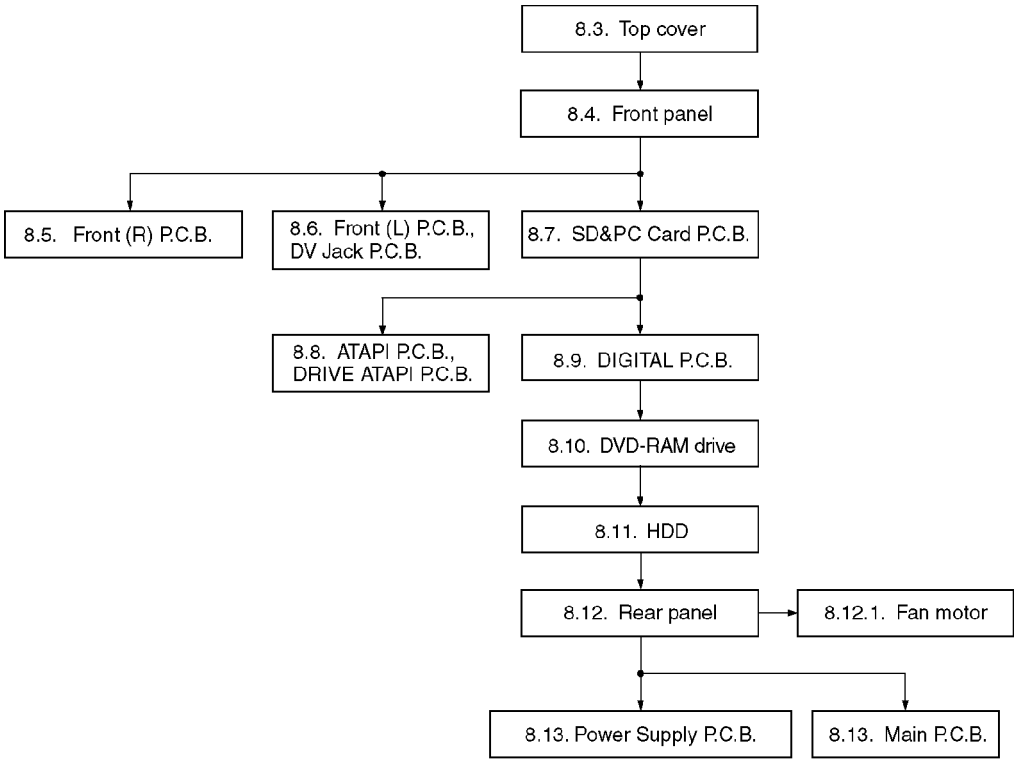
POWER P.C.B. (COMPONENT SIDE)



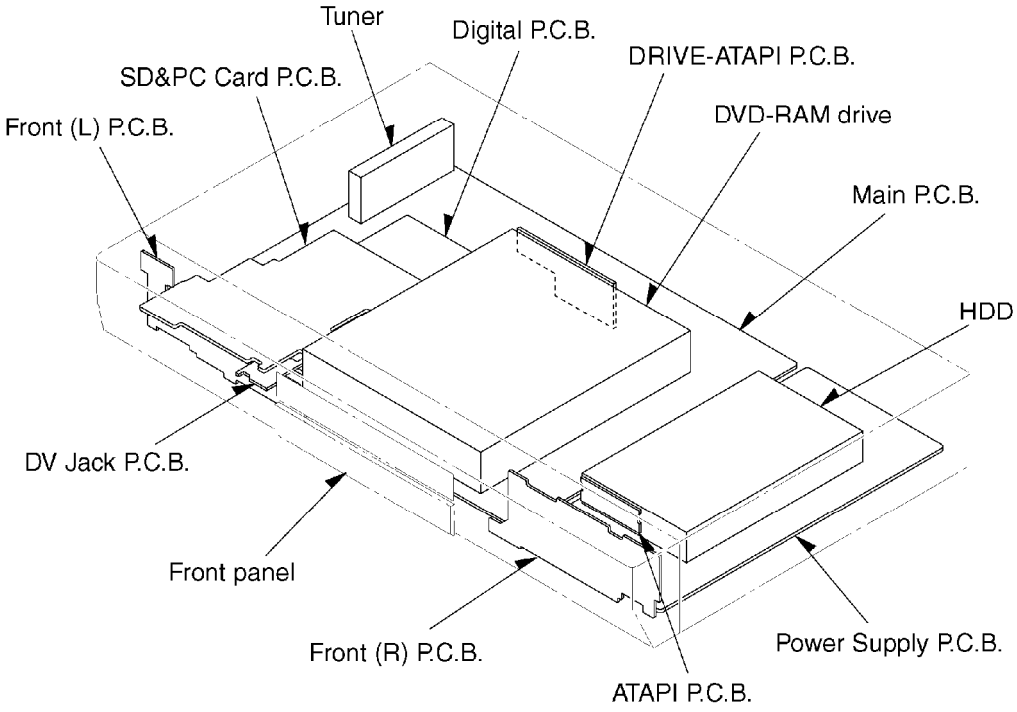
8. Assembling and Disassembling

8.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.



8.2. P.C.B. Positions

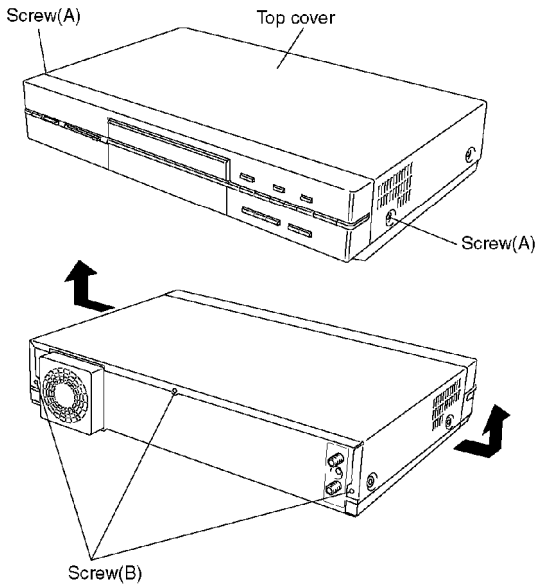


8.3. The Top Cover

1. Remove the 2 screws (A) and 3 screws (B).

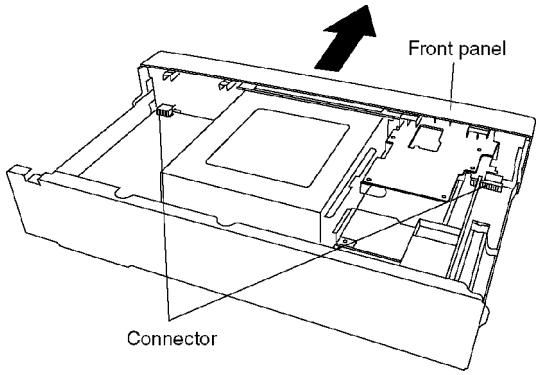
2. Open the both ends at the front side of the Top cover a bit and lift

the Top cover in the direction of the arrows.



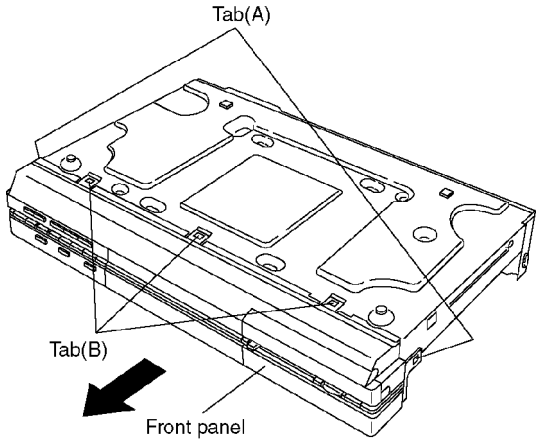
8.4. The Front panel

1. Remove the 2 connectors.



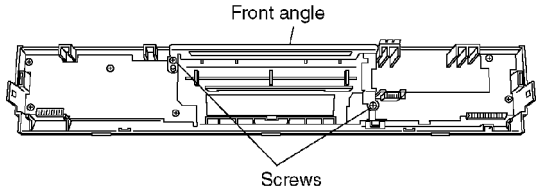
2. Remove the 2 tabs (A) and 3 tabs (B) in this order. (The tab (A) and the tab (B) should be removed at the same time, respectively.)

3. Move the front panel to your side slowly and remove it.

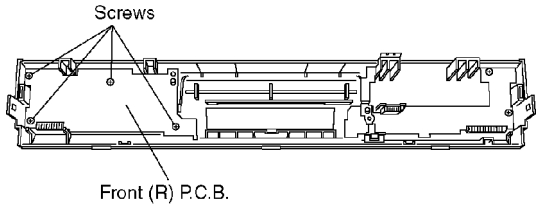


8.5. The Front (R) P.C.B.

1. Remove the 2 screws and remove the Front Angle.

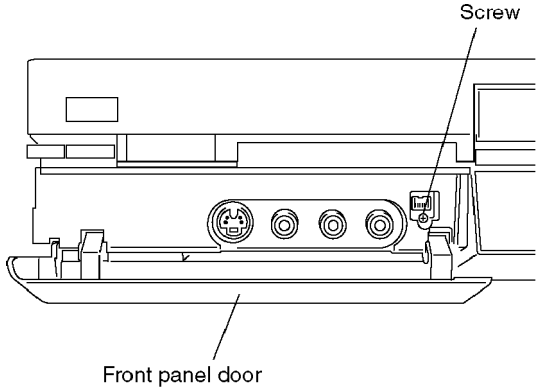


2. Remove the 4 screws (A) and remove the Front (R) P.C.B.

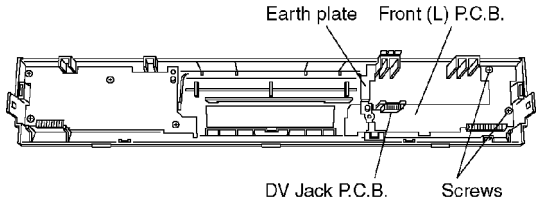


8.6. The Front (L) and DV Jack P.C.B.

1. Remove 1screw inside of the Front panel door with a precision screw driver.



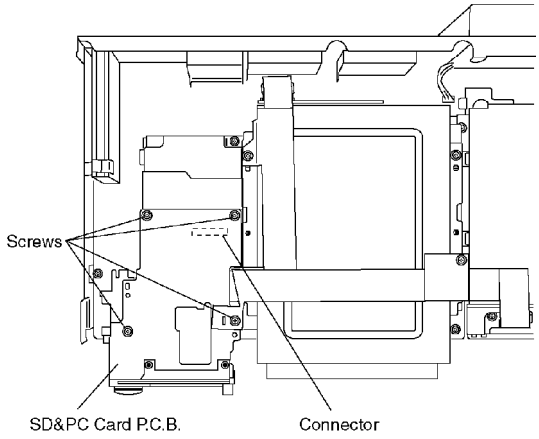
2. Remove the 2 screws with Earth plate and remove the Front (L) and DV Jack P.C.B.



8.7. The SD & PC card P.C.B.

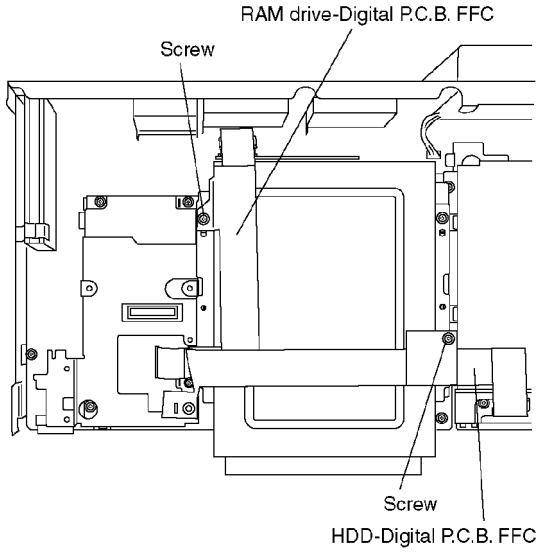
1. Remove the 4 screws.

2. Pull out the SD & PC card P.C.B. vertically.



8.8. The ATAPI and DRIVE-ATAPI P.C.B.

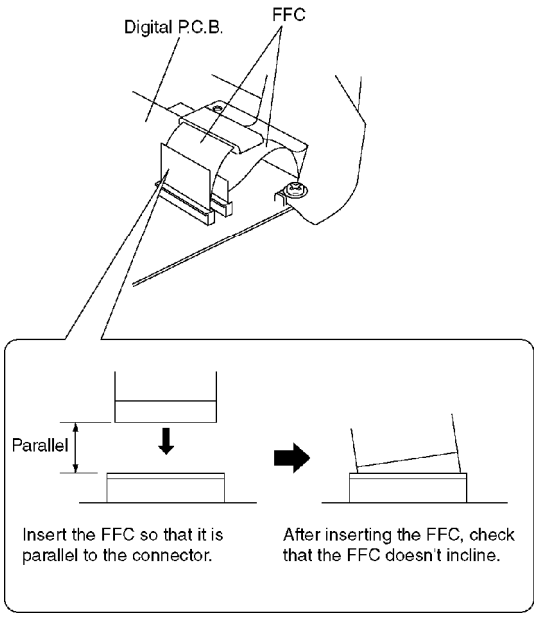
1. Remove the 2 screws.



2. Remove the FFC.

CAUTION:

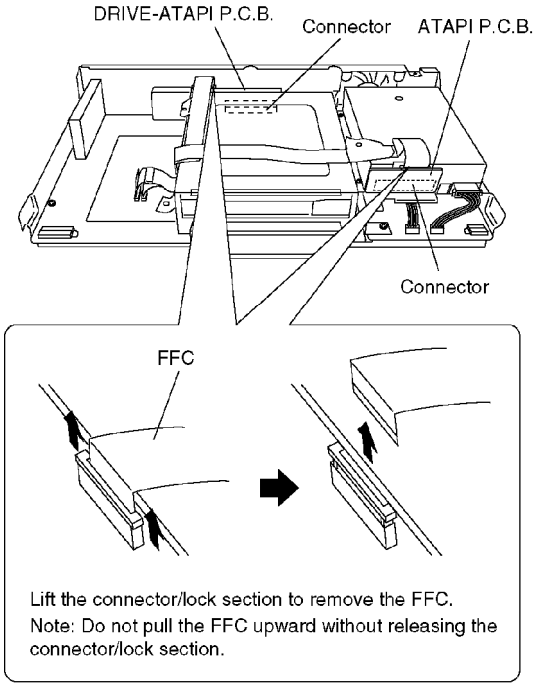
When removing the FFC, pay attention as below.


Digital P.C.B.
FFC
Parallel
Insert the FFC so that it is parallel to the connector.
After inserting the FFC, check that the FFC doesn't incline.

3. Remove the 2 connectors and remove the FFC.

CAUTION:

When removing the FFC, pay attention as below.



8.9. The Digital P.C.B.

When replacing with Digital P.C.B., "UNFORMAT" indication is displayed and HDD must be formatted.

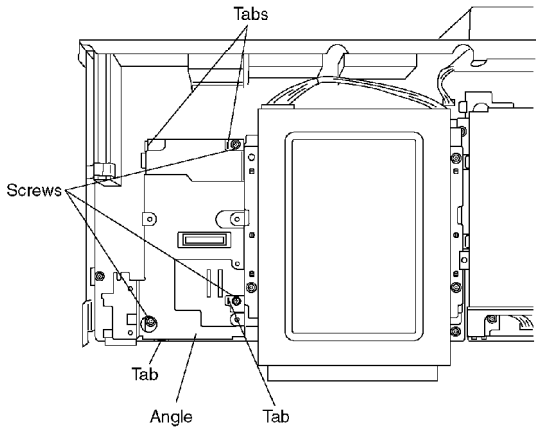
After that, **programme in the HDD will be lost**.

- How to format the HDD -

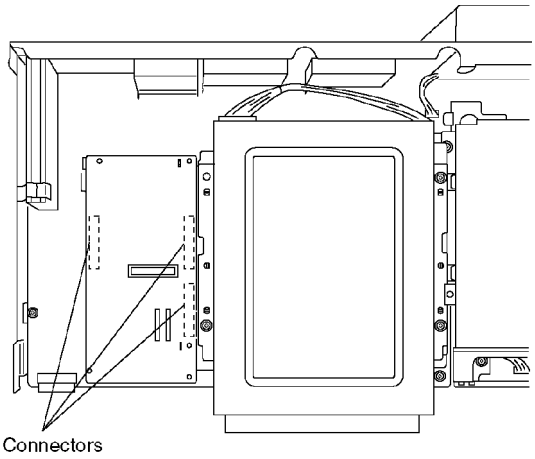
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.

2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

1. Remove the 3 screws and 4 tabs and remove the angle.



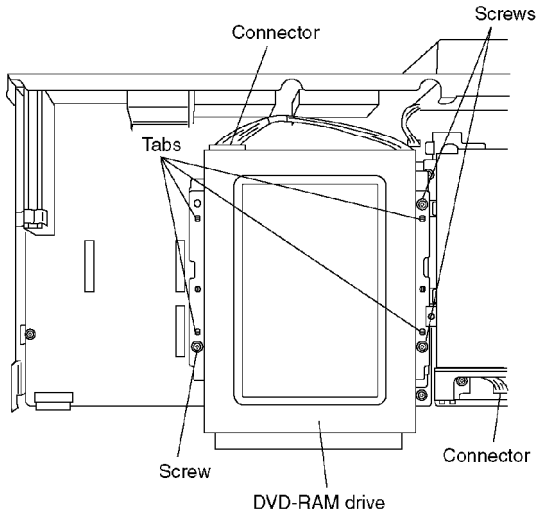
2. Pull out the Digital P.C.B. vertically with paying attention to 3 Connectors.



8.10. The DVD-RAM Drive

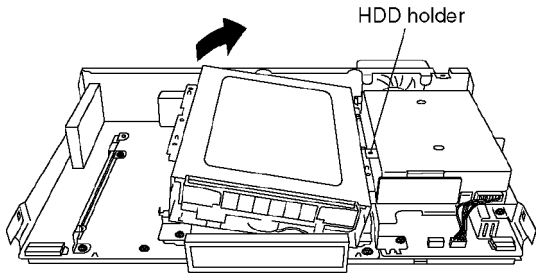
1. Remove the 2 connectors.

2. Remove the 3 screws and remove the 4 Tabs.



CAUTION:

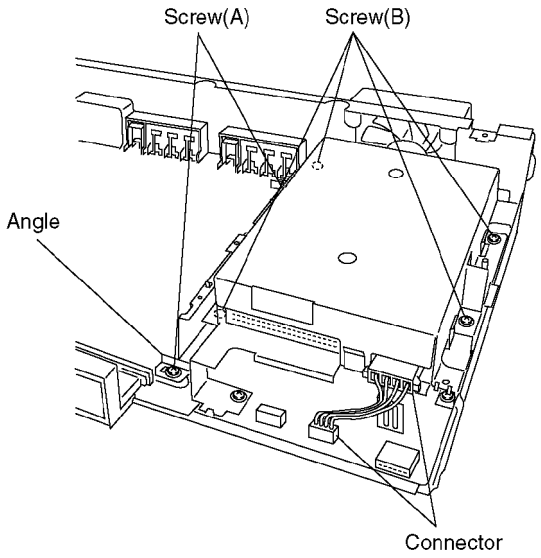
When replacing the DVD-RAM drive, remove the tab as below.



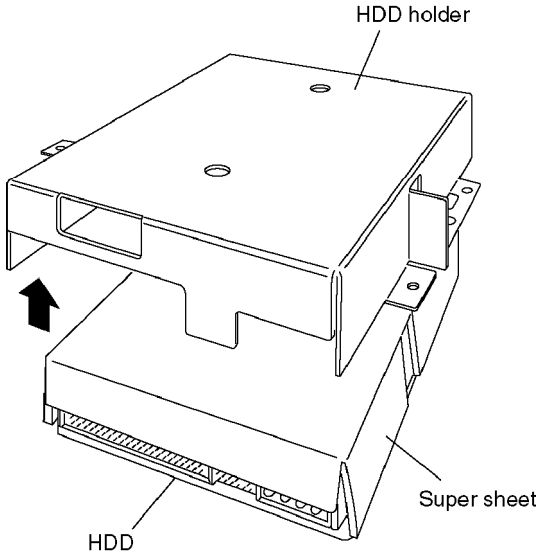
8.11. HDD

When replacing with HDD, "UNFORMAT" indication is displayed and HDD must be formatted.
After that, **programme in the HDD will be lost.**
- How to format the HDD -
1) After "UNFORMAT" is displayed on the FL display, warning message for HDD format is appeared on the TV screen.
2) Select "YES" and press "ENTER" button on the remote controller, HDD will be formatted automatically.

1. Remove the screw (A) with angle and screw (B).



2. Pull out the HDD holder vertically from Super sheet and HDD.



Handling of HDD

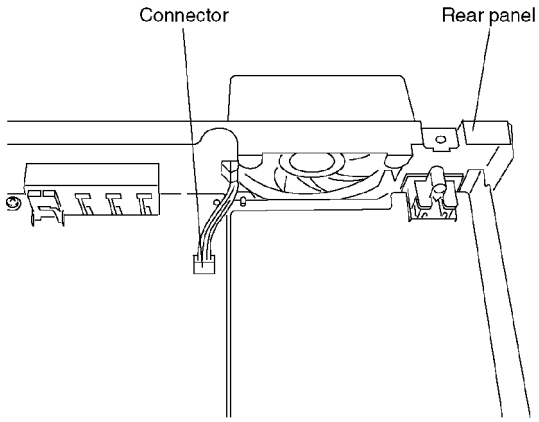
The following precautions should be taken when handling HDD.

1. Never give an impact to HDD. (Even a drop from 1cm height can be a cause of HDD failure.
2. When placing HDD on a workbench, provide a mat on a bench for shock absorption and anti-static purposes.
3. When installing HDD, release it from your hands only after confirming that it is fully set on the chassis.
4. Avoid stacking up HDD.
5. HDD is unstable and easy to fall. Do not stand it on its side face.
6. When handling HDD, hold its side faces to avoid static hazard.
7. Do not place HDD on its wrapping bag after removal. (Prevention of static hazard
8. Use a screwdriver with low impact and anti-static features.
9. To replace HDD, remove the vertical short-circuit pin.
(Keep the horizontal short-circuit pin in its place)

Note:
When replacing HDD, please make the rear jumper slave configuration.
(same configuration as HDD to exchange)

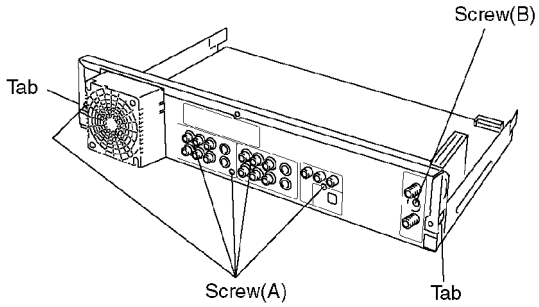
8.12. The Rear panel

1. Remove the Fan Motor connector.



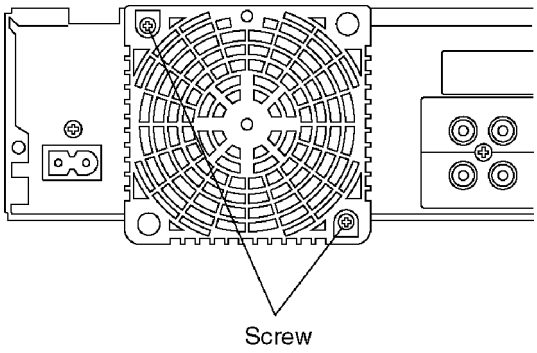
2. Remove the 5 screws (A) and 1screw (B).

3. Remove the 2 tabs and remove the Rear panel.

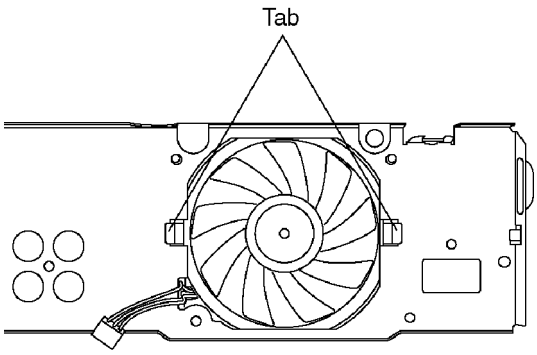


8.12.1. In case of removing Fan motor from Rear panel

1. Remove the 2 screws.



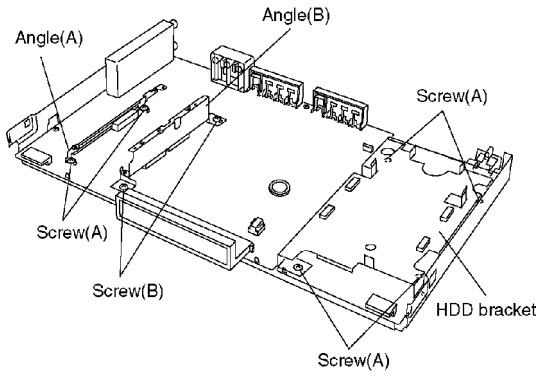
2. Remove the 2 tabs.



8.13. The Power Supply P.C.B. and Main P.C.B.

1. Remove the 6 screws (A) and 2 screws (B).

2. Remove the HDD bracket and angle (A) and angle (B).

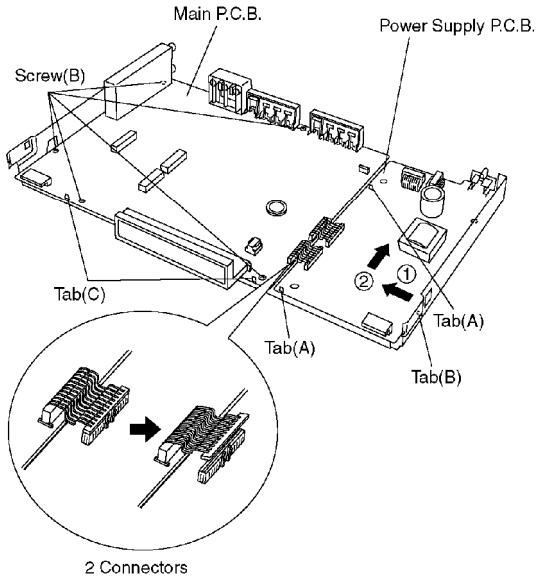


3. Remove the 2 connectors and 2 tabs (A).

4. Remove the Power Supply P.C.B and tab (B) , pull out it in the direction of the arrow.① to②.

5. Remove the 5 screws (B) and 2 tabs (C).

6. Remove the Main P.C.B.



9. Service Positions

9.1. Checking procedure

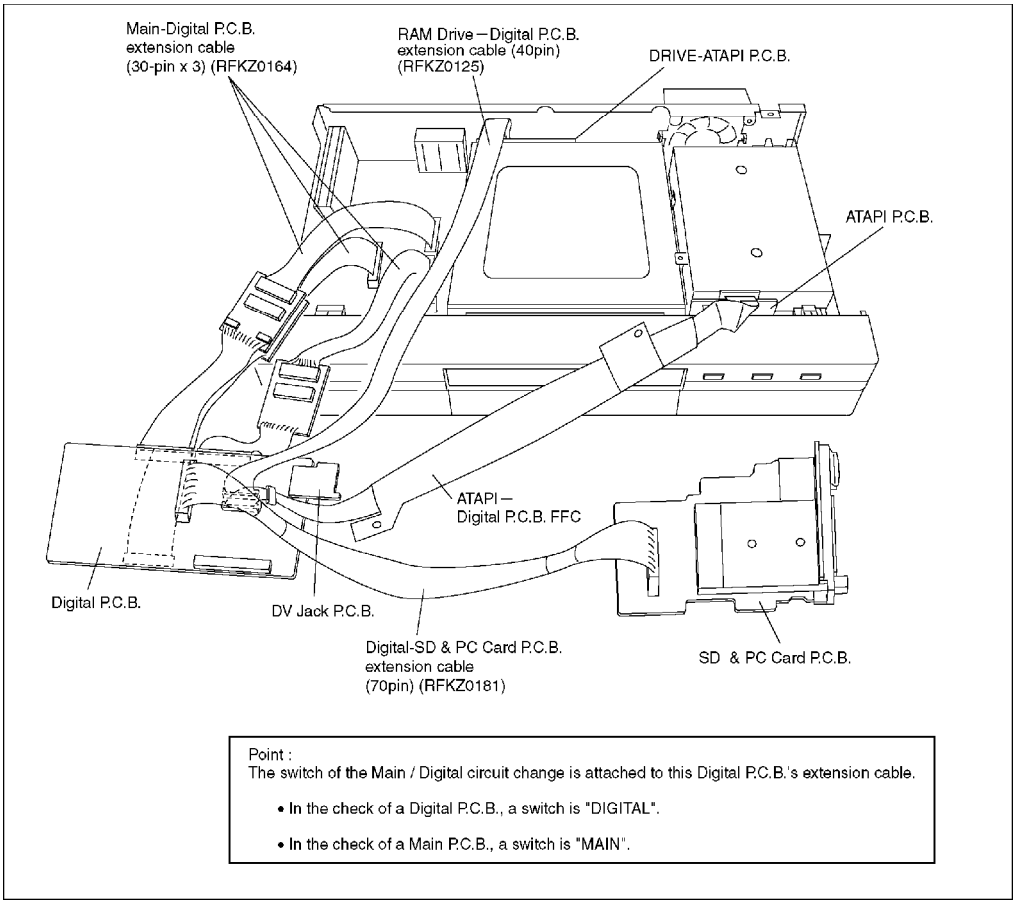
Note:
For the disassembling procedure, see the section 8.

9.2. Checking the Digital P.C.B.

1. Remove the Top Cover.

2. Remove the SD & PC Card P.C.B. and angle.
3. Remove the FFC (ATAPI - Digital P.C.B.).
4. Remove the FFC (DRIVE ATAPI - Digital P.C.B.)
5. Remove the Digital P.C.B.
6. Use the extension cable (RFKZ0164) to connect the Main P.C.B. and Digital P.C.B.
7. Connect the DRIVE ATAPI and Digital P.C.B. with extension cable (RFKZ0125).
8. Connect the ATAPI and Digital P.C.B.
9. Use the extension cable (RFKZ0181) to connect the Digital P.C.B. and SD & PC Card P.C.B.
10. Connect the Digital P.C.B. and DV Jack P.C.B.

Service tools	
Extension Cable (SD&PC Card P.C.B. - Digital P.C.B.)	RFKZ0181 (70pin)
Extension Cable (Main P.C.B. - Digital P.C.B.)	RFKZ0164 (30pin x 3)
Extension Cable (RAM Drive - Digital P.C.B.)	RFKZ0125 (40pin)


Main-Digital P.C.B.
extension cable
(30-pin x 3) (RFKZ0164)
RAM Drive – Digital P.C.B.
extension cable (40pin)
(RFKZ0125)
DRIVE-ATAPI P.C.B.
ATAPI P.C.B.
ATAPI –
Digital P.C.B. FFC
Digital P.C.B.
DV Jack P.C.B.
Digital-SD & PC Card P.C.B.
extension cable
(70pin) (RFKZ0181)
SD & PC Card P.C.B.
Point :
The switch of the Main / Digital circuit change is attached to this Digital P.C.B.'s extension cable.
• In the check of a Digital P.C.B., a switch is "DIGITAL".
• In the check of a Main P.C.B., a switch is "MAIN".

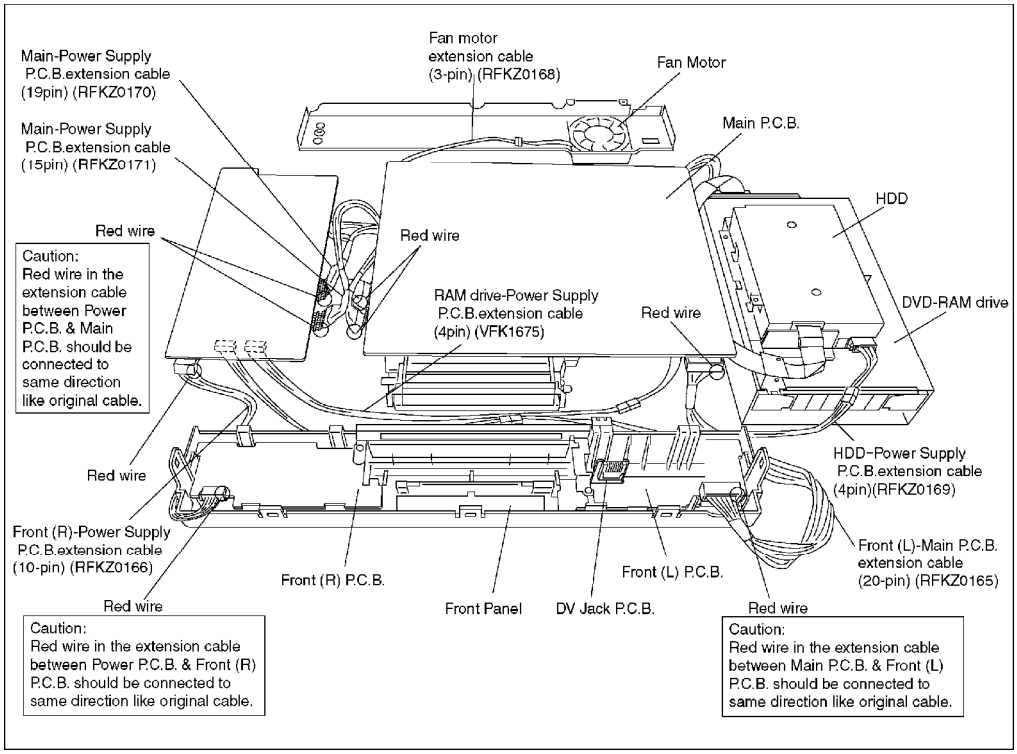
9.3. Checking the Main P.C.B. and FRONT (L), (R) P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the Rear Panel.**
4. **Remove the Power Supply P.C.B., Main P.C.B. and RAM Drive and HDD.**
5. **Use the extension cable (RFKZ0168) to connect the Main P.C.B. and Fan Motor.**
6. **Use the extension cable (RFKZ0169) to connect the HDD and Power supply P.C.B.**
7. **Use the extension cable (VFK1675) to connect the RAM Drive and Power Supply P.C.B.**
8. **Use the extension cables (RFKZ0170, RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B.**
9. **Install to the service positions views.**

10. Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.

11. Use the extension cable (RFKZ0166) to connect the Power supply P.C.B. and Front (R) P.C.B.

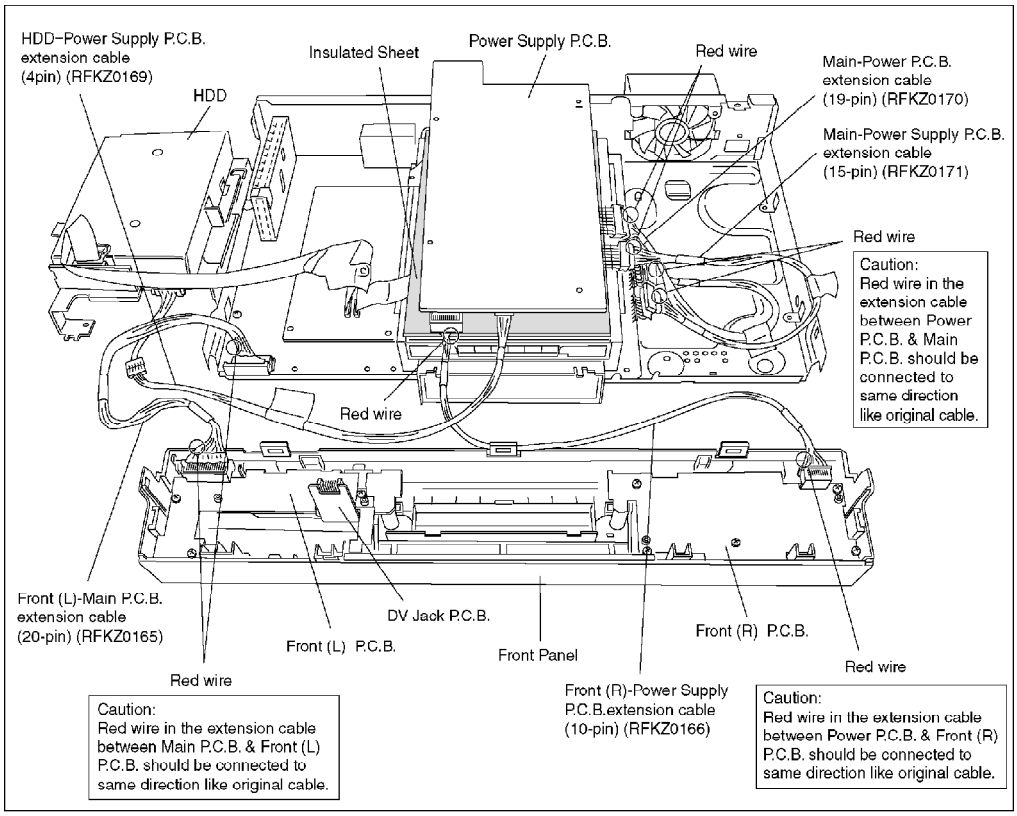
Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	**RFKZ0165 (20pin)**
Extension Cable (Power supply P.C.B. - Main P.C.B.)	**RFKZ0170 (19pin)**
Extension Cable (Power supply P.C.B. - Main P.C.B.)	**RFKZ0171 (15pin)**
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	**RFKZ0166 (10pin)**
Extension Cable (Power supply P.C.B. - HDD)	**RFKZ0169 (4pin)**
Extension Cable (Fan motor)	**RFKZ0168 (3pin)**


Fan motor extension cable (3-pin) (RFKZ0168)
Fan Motor
Main-Power Supply P.C.B.extension cable (19pin) (RFKZ0170)
Main-Power Supply P.C.B.extension cable (15pin) (RFKZ0171)
Main P.C.B.
HDD
Red wire
Red wire
Caution: Red wire in the extension cable between Power P.C.B. & Main P.C.B. should be connected to same direction like original cable.
RAM drive-Power Supply P.C.B.extension cable (4pin) (VFK1675)
Red wire
DVD-RAM drive
HDD-Power Supply P.C.B.extension cable (4pin)(RFKZ0169)
Red wire
Front (R)-Power Supply P.C.B.extension cable (10-pin) (RFKZ0166)
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165)
Front (R) P.C.B.
Front (L) P.C.B.
Red wire
Front Panel
DV Jack P.C.B.
Red wire
Caution: Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.
Caution: Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.

9.4. Checking the Power Supply P.C.B.

1. **Remove the Top Cover.**
2. **Remove the Front Panel.**
3. **Remove the screw which fixed Rear Panel and AC Inlet on the Power Supply P.C.B..**
4. **Remove the HDD with HDD bracket.**
5. **Use the extension cable (RFKZ0169) to connect the HDD and Power supply P.C.B.**
6. **Remove the Power Supply P.C.B., fix it on the insulation sheet.**
7. **Use the extension cables (RFKZ0170,RFKZ0171) to connect the Main P.C.B. and Power Supply P.C.B..**
8. **Use the extension cable (RFKZ0165) to connect the Main P.C.B. and Front (L) P.C.B.**
9. **Use the extension cable (RFKZ0166) to connect the Power Supply P.C.B. and Front (R) P.C.B.**

Service tools	
Extension Cable (Main P.C.B. - Front (L) P.C.B.)	RFKZ0165 (20pin)
Extension Cable (Power supply P.C.B. - Main P.C.B.)	RFKZ0170 (19pin)
Extension Cable (Power supply P.C.B. - Main P.C.B.)	RFKZ0171 (15pin)
Extension Cable (Power supply P.C.B. - Front (R) P.C.B.)	RFKZ0166 (10pin)
Extension Cable (Power supply P.C.B. - HDD)	RFKZ0169 (4pin)


HDD–Power Supply P.C.B. extension cable (4pin) (RFKZ0169)
HDD
Insulated Sheet
Power Supply P.C.B.
Red wire
Main-Power P.C.B. extension cable (19-pin) (RFKZ0170)
Main-Power Supply P.C.B. extension cable (15-pin) (RFKZ0171)
Red wire
Caution:
Red wire in the extension cable between Power P.C.B. & Main P.C.B. should be connected to same direction like original cable.
Red wire
Front (L)-Main P.C.B. extension cable (20-pin) (RFKZ0165)
DV Jack P.C.B.
Front (L) P.C.B.
Front Panel
Front (R) P.C.B.
Red wire
Red wire
Caution:
Red wire in the extension cable between Main P.C.B. & Front (L) P.C.B. should be connected to same direction like original cable.
Front (R)-Power Supply P.C.B.extension cable (10-pin) (RFKZ0166)
Caution:
Red wire in the extension cable between Power P.C.B. & Front (R) P.C.B. should be connected to same direction like original cable.

9.5. Specifications for HDD Spin-up/Spin-down

Condition of HDD	Working Spec.	Indications	Ren
Spin-up Spin-down	*When Recording or Playback operation is not performed for over 30 minutes in condition that no disc in the RAM Drive and HDD is spinning, the HDD shifts to Spin-down.	*LED for HDD is ON for 5 seconds. *[LED SLEEP] is indicated on the FL display. *A message for shifting to Spin-down is displayed with OSD screen.	
Spin-down is kept	*Operations of CH UP/DOWN, changing the OSD and so on in EE mode is permitted. *Drive selection and Tray opening are permitted, but HDD is not shifted to Spin-up. *Programmingof the Timer recording is permitted, but HDD does not shifts to Spin-up.	*Center circle (Red + White) is ON when the drive is HDD side. *[HDD SLEEP] is indicated on the FL display all the time. *HDD LED is ON.	

Condition of HDD	Working Spec.	Indications	Ren
Spin-down Spin-up	The HDD shifts to Spin-up by operations shown below. *When the [HDD] key is pressed. *When the playback operation (PLAY, DIRECT NAVIGATOR, PLAY LIST, MARKER) is performed. *Whenthe recording operation (REC, FLEXIBLE REC, PC connection, DV AUTO REC) is performed. *When FUNCTION key is pressed. *When the Tray is closed.	HDD LED is on for about 5 seconds until the HDD starts to spin.	Acceptati [REC] key Spin-dow condition permitted

10. List of Various Mode

10.1. List of Various Buttons

Each buttons name	Functions
DVD (Power)	To turn power on or off on the DVD.
TV (Power)	To turn power on or off on the TV.
DVD-TV	To select DVD or TV operation.
HDD	To select the operation for HDD.
DVD	To select the operation for DVD.
VIDEO Plus+ (Show View/G code)	To set timer program using G code/ Show View/ Video Plus+
OPEN/ CLOSE	To open and close the disc tray.
INPUT SELECT	To select the input source.
TV/ VIDEO	To select TV or VIDEO.
Numeric buttons (10key)	To put each number for selecting each function.
CANCEL	To cancel maker.
SKIP (Reverse)/ (Forward)	To skip chapter or marker position for reverse of forward direction.
STOP	To stop the recording or playback.
PAUSE	To still for playback or pause for recording.

Each buttons name	Functions
DIRECT NAVIGATOR/ TOP MENU	DIRECT NAVIGATOR To display menu for recorded program.
	<TOP MENU> (For only VCD or DVD-Video) To display top menu on the VCD or DVD-Video.
Cursor buttons	To move cursor position to select each menu.
ENTER	After selecting each menu with cursor buttons, press this button and enter.
FUNCTIONS	To display function menu.
PROG/ CHECK	To display timer porgram menu.
REC	To set the recording.
CH UP/ DOWN	To select channel on the TV or DVD.
VOLUME UP/ DOWN	To control volume on the TV.
SLOW/ SEARCH	<SLOW> To set the slow mode during still.
	<SEARCH> To set the cue or review during playback.
PLAY/ X1.3	<PLAY> To set playing back.
	<X1.3> To set the times 1.3 speed for playback by keep pressing playback button for more than 1 second.
PLAY LIST/ MENU	<PLAY LIST> To display play list.
	<MENU> (For only VCD or DVD-Video) To display menu on the VCD or DVD-Video.
RETURN	To return to previous condition.
FRAME (Reverse/ Forward)	To set frame advance.
CM SKIP	To skip CM.

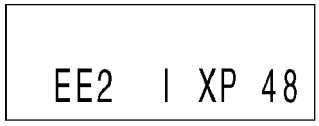
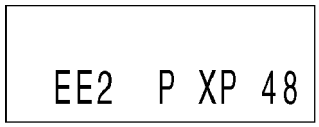
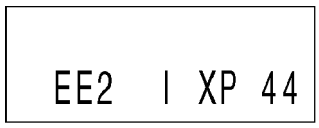
Each buttons name	Functions
TIME SLIP	(HDD, RAM, DVD-R) To playback program being recorded by setting time duration for each 1minute during recording.
	(HDD, RAM, DVD-R) To playback recorded program by setting time duration for each 1minute. *During recording or playback, playback 30seconds previous by pressing the button.
REC MODE	To set recording speed.
STATUS	To display product status, time status & present bit-rate.
ERASE	To erase recorded program or playlist during playback.
AUDIO	To select audio with tuner input or playback sound.
POSITION MEMORY	To memorize STOP position for playing back again. * STOP position is erased by turning power off and openning tray.
MARKER	(DVD-RAM/-R)To put marker for making chapter.
DISPLAY	To select disc,playback,picture & sound status.
SETUP	To display SETUP menu.
DUBBING	To dub recorded program at HDD to DVD-RAM/-R during playback.
EXT LINK	To set EXT LINK mode to record automatically by detecting signal from external equipment.

10.2. Special modes at a glance

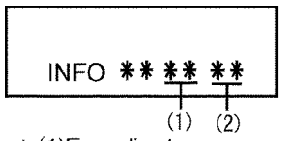
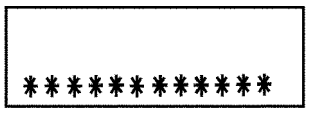
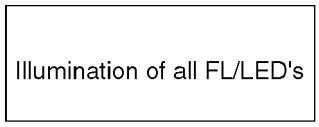
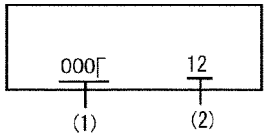
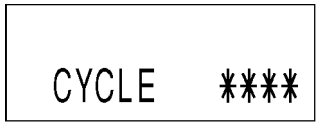
10.2.1. Service modes

Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Clear item	Items 1-20 are cleared.	SERVICE MODE	[0] [0] while in service mod
Error code display	FL display of the last error code held by timer	F00 FL display of the error code（U/H/F）	[0] [1] while in service mod
ROM version display	Region code, main, timer and drive firmware versions are displayed on screen and FL tube.	REGION* MAIN ****** TIMER ***** DRIVE **** * Version display	[0] [2] while in service mod
White picture output	White picture output from AV decoder White picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) WHIT I	[1] [1] while in service m
		Progressive/ Interlace switched. WHIT P	[1] [4] while in white picture *I ⟵ ⟶ P Toggle switched.
Magenta picture output	Magenta picture output from AV decoder Magenta picture (Chroma: 100%) Switching enabled by subcommand “I/P switch”	Initialization mode (Interlace) MAGE I	[1] [2] while in service m
		Progressive/ Interlace switched MAGE P	[1] [4] while in Magenta pict mode *I ⟵ ⟶ P Toggle switched.

Item		FL display	Key operation
Mode name	Description		Remote controller ke
RTSC return XP (A& V)	Disc recording of L1 input Encoded and decoded for external output without playback. REC mode is XP.	Initialization mode (EE2/ Interlace/ XP/ Audio 48kHz) 	[1] [3] while in service m
		Progressive/ Interlace switched. 	[1] [4] while in RTSC return mode *I ← → P Toggle switched.
		Audio 44.1kHz/ 48kHz switch 	[2] [4] while in RTSC retur mode *48k ← → 44.1k Toggle swi
I/P switching	“Interlace” and “Progressive” are switched. Initial setting is “Interlace”. (This command is effective when performing 14 and 15.)	Initialization mode Progressive 	[1] [4] while in service m *I ← → P Toggle switch
Audio Mute (XTMUTE)	Check whether mute is applied normally by the microcomputer timer.		[2] [1] while in service m
Audio Mute (XDMUTE)	Check whether is mute applied normally by the Digital P.C.B. (GLUE IC).		[2] [2] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Audio pattern output	The audio pattern stored in the internal memory is output (1kHz-18dB).	Initialization mode (Interlace) AUDIO 48	[2] [3] while in service m
		Audio 44.1kHz / 48kHz switched. AUDIO 44	[2] [4] while in white picture *48k ← → 44k Toggle switc
HDD READ inspection	Perform a complete read inspection of the HDD.	When the HDD is OK HDD OK If the HDD is negative, the OK section will read [NG].	[3] [1] in the service mode. *When canceling the check mode while checking, do "f power-off". Method: Press the "POWER" button unit more than 10 seconds.
Laser use time display	To check laser use time of drive	LASER **** * (*)displays the time (in hours). * The last working time is incremented in both the DVD/CD Play and Record modes.	[4] [1] while in service m
RAM drive last error	RAM drive error code display. *For details about the drive error code, refer to the manual for the specific RAM drive.	** **** ** ** ** (1) (2) (3) (4) (5) * (1)Sense key * (2)Additional sense code * (3)Host detail * (4)Access detail * (5)Mecha detail * This information is saved to EEPROM on the RAM drive.	[4] [2] while in service m
Laser error count	The number of times that a laser error has occured due to a defective disc or defective drive is counted and displayed.	LASERERR * * (*)is the number of times a laser error occured. * This information is saved to EEPROM on the RAM drive.	[4] [3] while in service m

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Factors which cause drive error	**The disc condition is displayed when an error occures.**	 * (1)Error disc type. * (2)Status of error disc. * The details can be checked using the separate table. * This information is saved to EEPROM on the RAM drive.	**[4] [4] while in service m**
Disc manufacture ID	**Display the manufacture's ID for a disc on which a drive error has occured.**	 The display example can be checked using the separate table.	**[4] [5] while in service m**
Illumination of all FL /LEDs	**All FL and LEDs are lit up.**		**[5] [1] while in service m**
S1 signal output	**Forcibly superimpose the S1 signal (5V DC) on the EE chroma signal, and check the output on the S terminal.**		**[5] [2] while in service m**
S2 signal output	**Forcibly superimpose the S2 signal (2.2V DC) on the EE chroma signal, and check the output on the S terminal.**		**[5] [3] while in service m**
Front connection inspection	**Press all the main unit's buttons and check the connection with the Main P.C.B..**	 *(1)Each time a key is pressed, the grid on the FL display will grow larger. *(2)Total number of main unit buttons.	**[5] [4] while in service m**
Tray OPEN/CLOSE	**The RAM drive tray is opened and closed repeatedly.**	 *FL display of the CYCLE count out.	**[9] [1] while in service mod *Canceling the setting is to "forced power-off." Method: Press the "POWER" button unit more than10 seconds.**

Item		FL display	Key operation
Mode name	Description		Remote controller ke
Error code initialization	Initialization of the last error code held by timer (Write in F00)	ERROR INIT	[9] [8] while in service m
Main unit initialization	All parameters (including timer) are initiaized to the factory setting.	FACT INIT	[9] [9] while in service m
PC card WRITE check	Check WRITE function using the media and PC card adaptor with PC card slot.	When the WRITE check is OK. PCCD SUCCESS When the WRITE check is NG. PCCD ERROR *Note:Theimage stored in the media is erased.	Insert PC card adaptor with media to PC card slot, and [7] [1] in service mode. *Insert PC card adaptor wit media while the power is of *Check for [CARD] onthe FI display and go on the proce
PC card READ check	Check READ function using the media with image and PC card adaptor with PC card slot.	When the READ check is OK. Image stored in the media is displayed on the monitor TV. JPEG TEST When the WRITE check is NG. JPEG TEST NG	Insert PC card adaptor with media to PC card slot, and [7] [2] in service mode. *Insert PC card adaptor wit media while the power is of *Check for [CARD] onthe FI display and go on the proce

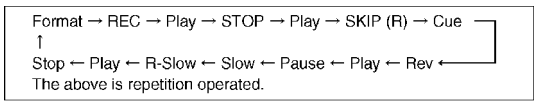
Item		FL display	Key operation
Mode name	Description		Remote controller ke
SD card WRITE check	Check SD card WRITE function with SD card slot.	When the WRITE check is OK. SDCD SUCCESS When the WRITE check is NG. SDCD ERROR *Note: Theimage stored in the SD card is erased.	Insert SD card to SD card s and press [7] [4] in service *Insert SD card while the pc is off. *Check for [CARD SD] on th display and go on the proce

10.2.2. Other special modes

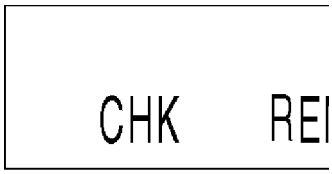
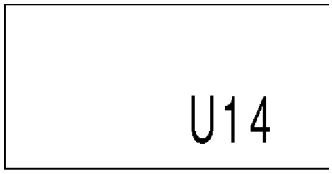
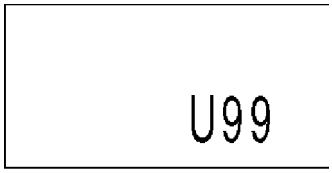
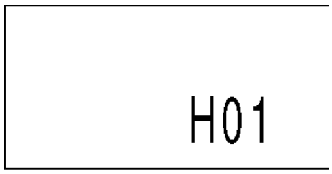
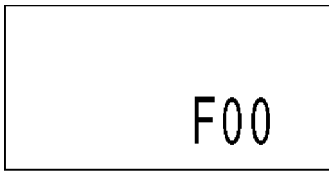
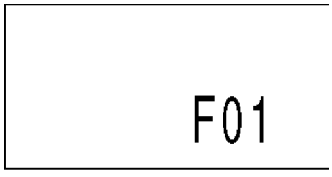
Item		FL display	Key operation
Mode name	Description		Front key
TEST Mode	*All the main unit's parameters are initialized. *Since a drive region is not specified [0] on replacement drives, it is specified when the drive is replaced.	TEST L1	When the power is off, pres SKIP(R), TIME SLIP and OPI CLOSE simultaneously for seconds.
Rating password	The audiovisual level setting password is canceled.	---	Open the tray, and press SI and SKIP(F) simultaneously five seconds.

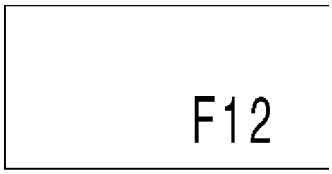
Item		FL display	Key operation
Mode name	Description		Front key
Demonstration lock/ unlock	Ejection of the disc is prohibited.	LOCK *When lock the tray: "LOCK" is displayed for 3 seconds. When unlock the tray: "UNLOCK" is displayed for 3 seconds. Pressthe OPEN/CLOSE key while the tray is locked, "LOCK" is displayed for 3 seconds.	With the power-on, press S and POWER simultaneousl five seconds.
Forced disc eject	Removing a disc that cannnot be ejected.	---	When the power is off, pres STOP and CH_UP simultaneously for five sec
Progressive initialization	The progressive setting is initialized.	---	In STOP(EE) mode, press C and CH DOWN simultaneou for five seconds.
Aging	See the * Aging Description shown below.	---	When the power is off, pres TIMEWARP + OPEN / CLOS CH DOWN simultaneously f five seconds.
Forcible power-off	When POWER is in ON of unit, making unit to POWER OFF forcely.	---	Press the “POWER” button unit more than 10 seconds.

*** Aging Description**



10.2.3. List of the U/H/F Error Displays

Display	Diagnosis	Description	FL display
U12	Remote control mode error	Display appears when main unit and remote controller modes are not matched.	
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 71Åé. Main unit is powered off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedforthe first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	 Displayed from the time of detection and while key en disabled after power-off (3 minutes).
U99	Hang-up	Displayed when microprocessor has hang-up.	 Remains displayed.
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on.	 Remains displayed.
F00	No error information	Initial setting for error code in memory (Initialization is possible with error code initialization and main unit initialization.)	 Remains displayed.
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	 Remains displayed.

Display	Diagnosis	Description	FL display
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory.	 Remains displayed.
UNSUPPORT	Unsupported disc error	*A disc an unsupported format was played, even though the drive starts normally. *The data format is not supported even though the media type is supported.	
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	
HARD ERR	Drive error	The drive detected a hard error.	
RECOVER	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.	

10.3. The information table of an error generating disk

10.3.1. Error generating disk type

(hexadecimal)	Disk type
00	DVD-ROM/Video
01	Audio-CD
02	2.6GB DVD-RAM
03	4.7GB DVD-RAM
04	DVD-R

10.3.2. Error generating disk state

(hexadecimal)	Contents			
	Sizes of disk	Cartridge disk state	Cartridge state	Disk distinction state
00	12cm	Have not opened yet.	With cartridge	OK
10	12cm	Have not opened yet.	With cartridge	NG
20	12cm	Have not opened yet.	Nakedness	OK
30	12cm	Have not opened yet.	Nakedness	NG
40	12cm	Have been opened.	With cartridge	OK
50	8cm	Have not opened yet.	Nakedness	OK
60	12cm	Have been opened.	Nakedness	OK
70	12cm	Have been opened.	Nakedness	NG
80	8cm	Have not opened yet.	With cartridge	OK
90	8cm	Have not opened yet.	With cartridge	NG
A0	12cm	Have been opened.	With cartridge	NG
B0	8cm	Have not opened yet.	Nakedness	NG
C0	8cm	Have been opened.	With cartridge	OK
D0	8cm	Have been opened.	With cartridge	NG
E0	8cm	Have been opened.	Nakedness	OK
F0	8cm	Have been opened.	Nakedness	NG

10.3.3. Disk production maker ID

No	FL displays	Disk type / Maker name
1	MEI*****	DVD-R by Panasonic
2	PVC*****	DVD-R by Pioneer
3	MCC*****	DVD-R by MITSUBISHI
4	TDK*****	DVD-R by TDK
5	MXL*****	DVD-R by Maxell
6	MCI*****	DVD-R by MITUI CHEMICALS
7	MATSUSHITA	DVD-RAM by Panasonic
8	MXL*	DVD-RAM by Maxell

*** Since a display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**

Please make it reference as an example of a display.

11. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMPOUTPUT
	ASYNC	AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	
	DO	DIGITAL MUTE CONTROL
	DOUT0~UP	DROP OUT
		DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/
	ETSCLK	40.5MHz)
		EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED
	FEO	INPUT
	FG	FOCUS ERROR AMP OUTPUT
	FSC	FREQUENCY GENERATOR
	FSCK	FREQUENCY SUB CARRIER
		FS (384 OVER SAMPLING)
		CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	
	IREF	INTERPOLATION FLAG
	ISEL	I (CURRENT) REFERENCE
		INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORYSERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK / PLLOK	CHANNEL PLL CLOCK PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVEA
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA
		SYSTEM CLOCK

		SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING
	VDD	BALANCE)
	VFB	DRAIN POWER SUPPLY
	VREF	VOLTAGE
	VSS	VIDEO FEED BACK VOLTAGE REFERENCE SOURCE POWER SUPPLYVOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

12. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

12.1. Power Supply P.C.B.

12.2. Main P.C.B.

12.3. Front (R) P.C.B.

12.4. PS9001, PS9002, PS9003 Connectors

12.5. PP9701, PP9702 Waveform

13. Block Diagram

13.1. Power Supply Block Diagram

13.1.1. Integrated Circuit Power Supply Chart (PSC 1 - PSC 19)

13.2. Analog Video Block Diagram

13.3. Analog Audio Block Diagram

13.4. Timer Block Diagram

13.5. Digital Section Block Diagram

13.5.1. Digital Video Section Block Diagram

13.5.2. Digital Audio Section Block Diagram

13.5.3. Digital Block IC Pin Terminal Chart (TC1-TC37)

14. Schematic Diagram

14.1. Interconnection Schematic Diagram

14.2. Main Power Supply Schematic Diagram

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)

14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/9)

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/9)

14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/9)

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/9)

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/9)

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/9)

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B. 7/9)

14.15. Real Time Stream (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/9)

14.16. MPEG4 Schematic Diagram (MP) (Digital P.C.B. 9/9)

14.17. ATAPI Schematic Diagram

14.18. Drive ATAPI Schematic Diagram

14.19. SD & PC Card Schematic Diagram

14.20. Front (L) Schematic Diagram

14.21. Front (R) Schematic Diagram

15. Print Circuit Board

15.1. Power Supply P.C.B.

15.2. Main P.C.B.

15.2.1. Main P.C.B. (Section 1/4)

15.2.2. Main P.C.B. (Section 2/4)

15.2.3. Main P.C.B. (Section 3/4)

15.2.4. Main P.C.B. (Section 4/4)

15.2.5. Main P.C.B. Address Information

15.3. Digital P.C.B.

15.3.1. Digital P.C.B. (Section 1/2)

15.3.2. Digital P.C.B. & DV Jack P.C.B. (Section 2/2)

15.3.3. Digital P.C.B. Address Information

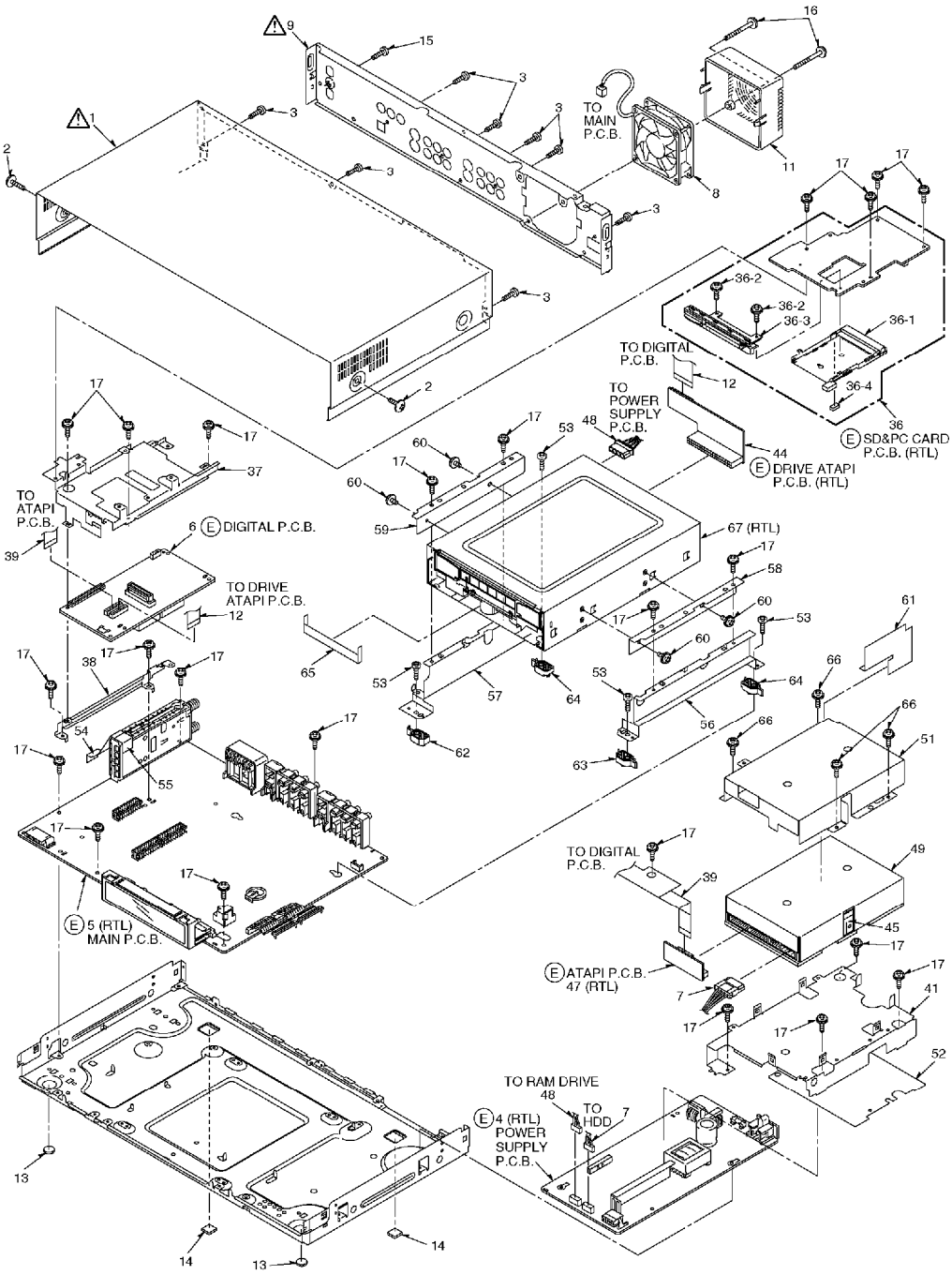
15.4. Drive ATAPI & ATAPI P.C.B.

15.5. SD & PC Card P.C.B.

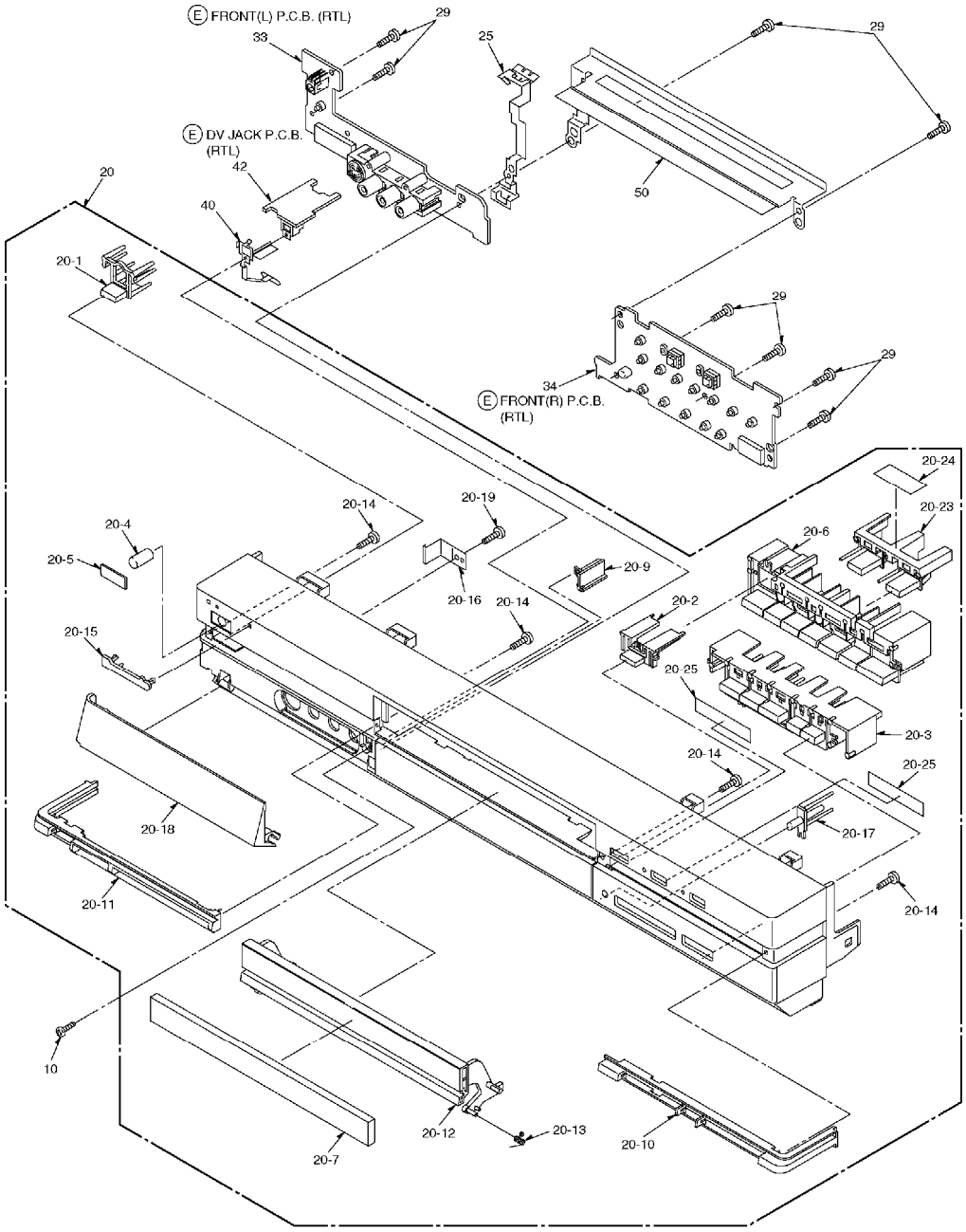
15.6. Front (L) & (R) P.C.B.

16. Exploded Views

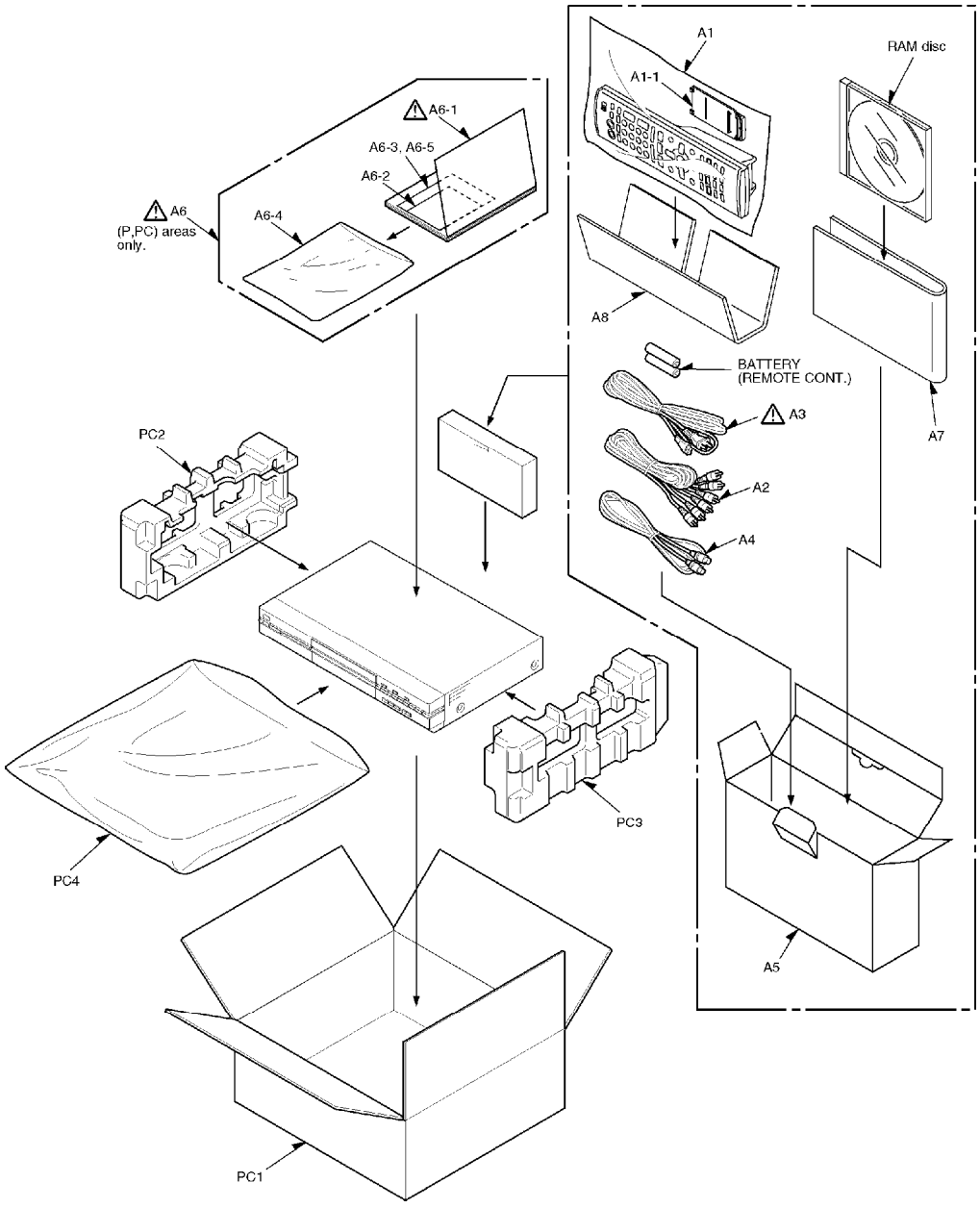
16.1. Casing Parts & Mechanism Section 1



16.2. Casing Parts & Mechanism Section 2



16.3. Packing & Accessories Section



17. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**
***"<IA>"-"<IB>", marks in Remarks indicate languages of instruction manuals. [<IA>: English, <IB>: Canadian French] All parts aresupplied by S.P.C..**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	01	CASING/ACCESSORY/PACKING		
1	RKM0485-S	TOP COVER	1	⚠
2	SNE2129-4	SCREW	2	
3	VHD0690	SCREW	8	
4	ETXMM426A4G	POWER SUPPLY P.C.B.	1	(RTL)
5	REP3603B	MAIN P.C.B.	1	(RTL)
6	REP3543E	DIGITAL P.C.B.	1	(P)
6	REP3543EF	DIGITAL P.C.B.	1	(PC)
6	REP3543EG	DIGITAL P.C.B.	1	(PL)
7	VEE0Z16	WIRE WITH CONNECTOR(4P)	1	
8	L6FALCCE0004	FAN MOTOR	1	
9	RGR0337J-A	REAR PANEL	1	(P) ⚠
9	RGR0337J-D	REAR PANEL	1	(PC) ⚠
9	RGR0337J-E	REAR PANEL	1	(PL) ⚠
10	XQN16+B4FN	SCREW	1	
11	RMN0751	FAN COVER	1	
12	VEK0D78	FFC(40P)	1	
13	RKA0143-K	LEG	2	
14	RKA0144-K	FOOT RUBBER	2	
15	XSN3+4FZ	SCREW	2	
16	XTN3+23JFZ	SCREW	2	
17	XTN3+7F-C	SCREW	24	(P)
17	XTN3+7F-C	SCREW	25	(PC,PL)
20	RYP1203A-S	FRONT PANEL ASS'Y1	1	
20-1	RGU2185A-1S	POWER BUTTON	1	
20-2	RGU2228-S	OPEN BUTTON	1	
20-3	RGU2213-S	PLAY BUTTON	1	
20-4	RGQ0327-Q	IR WINDOW GUIDE	1	
20-5	RKW0724-S	IR WINDOW	1	
20-6	RGU2229A-S	CHANNEL BUTTON	1	
20-7	RYF0700-S	TRAY ORNAMENT ASS'Y	1	
20-9	RMR1526-H	SHAFT HOLDER	1	
20-10	RGK1675A-S	FRONT ORNAMENT(R)	1	
20-11	RGK1674-S	FRONT ORNAMENT(L)	1	
20-12	RKF0671-S	TRAY DOOR	1	
20-13	VMB3410	BLINDER SPRING	1	
20-14	XTN2+6G	SCREW	4	
20-15	VGB0560	PANASONIC BADGE	1	
20-16	RMC0577	DOOR SPRING	1	
20-17	RGL0633-Q	PANEL LIGHT	1	
20-18	RYF0678A-S	PANEL DOOR ASS'Y	1	
20-19	XTBS26+8J	SCREW	1	
20-23	RGU2230-W	DVD/HDD BUTTON	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
20-24	RMZ0724	PANEL SHEET	1	
20-25	RMX0252	DAMPER SHEET	2	
25	RMC0549	EARTH PLATE	1	
29	XTBS26+10J	SCREW	8	
33	REP3598AB	FRONT (L) P.C.B.	1	(RTL)
34	REP3598BA	FRONT (R) P.C.B.	1	(RTL)
36	REP3540CA	SD CARD P.C.B.	1	(RTL)
36-1	VXA7721	PC CARD SLOT	1	
36-2	XYN2+F6	SCREW	2	
36-3	RYQ0445A-A	CARD HOLDER ASS'Y	1	
36-4	RMX0266	GASKET	1	
37	RMA1650	PC CARD ANGLE	1	
38	RMA1651	DIGITAL ANGLE(L)	1	
39	VEK0E37	FFC(40P)	1	
40	RMC0550	DV EARTH	1	
41	RMA1675	HDD BRACKET	1	
42	REP3540AB	DV JACK P.C.B.	1	(RTL)
44	REP3604A	DRIVE ATAPI P.C.B.	1	(RTL)
45	N3CBBUM00009	HARD DISK DRIVE ASS'Y	1	
47	REP3542A	ATAPI P.C.B.	1	(RTL)
48	VEE0Y55	WIRE WITH CONNECTOR(4P)	1	
49	RXQ1073-1	SUPER SHEET	1	
50	RMA1669	FRONT ANGLE	1	
51	RMA1674	HDD HOLDER	1	
52	RMZ0700	INSULATED SHEET	1	
53	RHD30109	SCREW	4	
54	VGQ5954	TAPE	1	
55	RGQ0324-K	SHEET	1	
56	RMA1670	MECHA ANGLE(R)	1	
57	RMA1671	MECHA ANGLE(L)	1	
58	RMA1673	MECHA ATTACHMENT(R)	1	
59	RMA1672	MECHA ATTACHMENT(L)	1	
60	XYN3+F6	SCREW	4	
61	RMV0261	BARRIER	1	
62	RMX0255	MECHA SPACER(A)	1	
63	RMX0256	MECHA SPACER(B)	1	
64	RMX0257	MECHA SPACER(C)	2	
65	VSC5562	FRONT SHIELD PLATE	1	
66	XTW3+6M	SCREW	4	
67	VXY1789	RAM DRIVE UNIT	1	(RTL)
A1	EUR7624KB0	REMOTE CONTROL ASS'Y	1	
A1-1	UR76EC2403A	BATTERY COVER	1	
A2	K2KA6CA00001	A/V CORD	1	
A3	K2CB2CB00006	AC CORD	1	⚠
A4	VJA1091	RF COAXIAL CABLE	1	K1TXAAA00001
A5	RPQF0250	ACCESSORY CASE	1	
A6	RQF5177	FAN BAG ASS'Y	1	(P) ⚠
A6	RQF5262	FAN BAG ASS'Y	1	(PC) ⚠
A6-1	RQT6986-P	OPERATING INSTRUCTIONS	1	(P,PC)<IA> ⚠
A6-1	RQT7146-C	OPERATING INSTRUCTIONS	1	(PC) <IB> ⚠
A6-2	RQCA1004	DISC CAUTION SHEET	1	(P,PC)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A6-3	RQCA1119	HDD CAUTION SHEET	1	(P,PC)
A6-4	RPF0378	POLYETHYLENE BAG(F.B.)	1	(P,PC)
A6-5	RQCA1121	PC CARD CAUTION SHEET	1	(P,PC)
A7	RPQ1450	PAD(A)	1	
A8	RPQ1594	PAD(C)	1	
PC1	RPG6593	PACKING CASE	1	(P)
PC1	RPG6722	PACKING CASE	1	(PC)
PC1	RPG6723	PACKING CASE	1	(PL)
PC2	RPN1652A	CUSHION(L)	1	
PC3	RPN1652B	CUSHION(R)	1	
PC4	VPF0505	POLYETHYLENE BAG(UNIT)	1	
■	02	ETXMM426A4G		
C001	KH101K	100P	1	⚠
C002	KH332M	3300P	1	⚠
C003	ECQU2A104ML	0.1	1	⚠
C004	ECQU2A224ML	0.22	1	⚠
C005	KH101K	100P	1	⚠
C006,07	KH332M	3300P	2	⚠
C008	KH102M	1000P	1	⚠
C009	KMM2E121	250V 120	1	
C010-12	MBB105K1	16V 1	3	
C013	MBC102J5	50V 1000P	1	
C014	MBC681J5	50V 680P	1	
C016	CD222M	2200P	1	⚠
C017	ECJ2VB1H103K	50V 0.01	1	
C018	MBB105K1	16V 1	1	
C019	MBB104K5	50V 0.1	1	
C020	RR3AD471K	1KV 470P	1	
C022	KY1V560	35V 56	1	
C023	DE1SL151J	1KV 150P	1	
C102	MBC102J5	50V 1000P	1	
C104	KMG1H2R2	50V 2.2	1	
C106	KY1A122	10V 1200	1	
C107	ECA1AHG102	10V 1000	1	
C109	KY1E681L	25V 680	1	
C112	KY1A471	10V 470	1	
C114,15	MBB105K1	16V 1	2	
C116	ECQB1H103JF	50V 0.01	1	
C118	MBB104K2	25V 0.1	1	
C119	ECQB1H333JF	50V 0.033	1	
C120	MBB104K2	25V 0.1	1	
C121	ECA1AHG102	10V 1000	1	
C122	KY1E470	25V 47	1	
C123	KY0J152	6.3V 1500	1	
C125	KY1A221	10V 220	1	
C126	KY1A471	10V 470	1	
C127	KY1E470	25V 47	1	
C128	MBB104K2	25V 0.1	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C129	MBC101K2D	200V 100P	1	
C132	ECA1AHG102	10V 1000	1	
C133	ECQV1H105JL	50V 1	1	
C140	KY1C471	16V 470	1	
C142	KY1E331	25V 330	1	
C301	MBC102J5	50V 1000P	1	
C302	MBB104K2	25V 0.1	1	
C304	MBB333K5	50V 0.033	1	
C306	MBB105K1	16V 1	1	
C307	MBB104K2	25V 0.1	1	
C308	MBB105K1	16V 1	1	
C309-11	MBB104K2	25V 0.1	3	
C312-14	ECJ2FB1H473K	50V 0.033	3	
C315	ECJ2XB1H333K	50V 0.033	1	
C317	MBC102J5	50V 1000P	1	
D001	D2SBA60	DIODE	1	⚠
D002	MA111TX	DIODE	1	MA2J11100L
D004	MA111TX	DIODE	1	MA2J11100L
D006	M1FL20U	DIODE	1	
D007	AP01C	DIODE	1	B0HADV000010
D008	ERA91-02	DIODE	1	B0AAGM000001
D101	RL2ZLF	DIODE	1	B0HANM000021
D103	FCQ20A6	DIODE	1	
D105	RK49	DIODE	1	B0JAPK000005
D106	FCQ20A6	DIODE	1	
D107,08	MA165TA5	DIODE	2	MA2C16500E
D112	ERA15-04	DIODE	1	B0EAKP000016
D113,14	MA111TX	DIODE	2	MA2J11100L
D117,18	MA111TX	DIODE	2	MA2J11100L
D121,22	MA165TA5	DIODE	2	MA2C16500E
D125	MA165TA5	DIODE	1	MA2C16500E
D301-07	MA111TX	DIODE	7	MA2J11100L
F001	SB125V-3.15	FUSE	1	⚠
F101,02	19396-2.5A	FUSE	2	⚠
IC001	FA13844N	IC	1	
IC102	AN1431T	IC	1	
IC103	NJM431U	IC	1	
IC104	AN1431T	IC	1	
IC105	KA378R12C	IC	1	
IC301,02	NJM2904M	IC	2	C0ABBA000021
IP101	ICPN15	IC PROTECTOR	1	⚠
IP102	ICPN25	IC PROTECTOR	1	⚠
L001,02	ELF15N005A	COIL	2	⚠
L003	LAV35VB150K	COIL	1	
L004,05	EXCELDR35	COIL	2	
L101	EXCELSA24	COIL	1	
L105-07	EXCELDR35	COIL	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L108	LH8TB100K	COIL	1	
L110	LHLZ1R0M	COIL	1	
L111	EXCELDR35	COIL	1	
L112	LHLZ1R5M	COIL	1	
L114	LHLZ1R5M	COIL	1	
L115	EXCELSA35	COIL	1	
L140	LH8TB100K	COIL	1	
L141	EXCELSA35	COIL	1	
L142	EXCELSA24	COIL	1	
L143	EXCELSA35	COIL	1	
P001	M2024	AC INLET	1	⚠
PC001	0N3171	PHOTO COUPLER	1	CNC1S171 ⚠
PS101	B4B-EH-A	CONNECTOR	1	
PS102	TWGP15XA1	CONNECTOR	1	
PS103	127602110K	CONNECTOR	1	
PS104	B4B-EH-A	CONNECTOR	1	
PS105	TWGP19XA1	CONNECTOR	1	
Q001,02	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q003	2SK2543	TRANSISTOR	1	⚠
Q004	UN2213	TRANSISTOR	1	UNR2213
Q101	2SB709A	TRANSISTOR	1	2SB0709A
Q102	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q104	2SD601A-R	TRANSISTOR	1	2SD0601AR
Q105	UN221L	TRANSISTOR	1	UNR221L
Q106	UN2111	TRANSISTOR	1	UNR2111
Q107	UPA1720G	TRANSISTOR	1	
Q108	2SB766A	TRANSISTOR	1	2SB0766A
Q109,10	2SD601A-R	TRANSISTOR	2	2SD0601AR
Q111	2SB709A	TRANSISTOR	1	2SB0709A
Q113	2SK2232	TRANSISTOR	1	B1DEHG000006
Q115	2SB709A	TRANSISTOR	1	2SB0709A
Q301	2SK3366	TRANSISTOR	1	
Q302	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q303	2SB710A	TRANSISTOR	1	2SB0710A
Q305	2SB1218A	TRANSISTOR	1	
Q307	2SD1328-R	TRANSISTOR	1	2SD13280R
Q308	2SB1218A	TRANSISTOR	1	
Q310	2SK3366	TRANSISTOR	1	
Q311	2SD602A-R	TRANSISTOR	1	2SD0602AR
Q312	2SB710A	TRANSISTOR	1	2SB0710A
Q313	2SB1218A	TRANSISTOR	1	
Q314	2SD1328-R	TRANSISTOR	1	2SD13280R
Q315	2SB1218A	TRANSISTOR	1	
R001	ERDS1FJ223	0.5W 22K	1	
R002	ERDS1FJ105	0.5W 1M	1	
R003	ERDS1FJ223	0.5W 22K	1	
R006	CR10J473	0.1W 47K	1	
R007	CR10F1002	0.1W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R008,09	CR10J473	0.1W 47K	2	
R010	CR10J104	0.1W 100K	1	
R011	CR10F1001	0.1W 1K	1	
R012	ER0S2TKF1000	0.25W 100	1	
R013	CR10J102	0.1W 1K	1	
R015	CR10J333	0.1W 33K	1	
R016,17	CR10J101	0.1W 100	2	
R020	CR10J101	0.1W 100	1	
R021	CR10J561	0.1W 560	1	
R022	CR10J222	0.1W 2.2K	1	
R023	CR10J472	0.1W 4.7K	1	
R024	CR12JR33H	0.5W 0.33	1	
R027,28	ERJ12YJ513	0.5W 51K	2	
R029,30	CR100R00	0	2	
R032	ERG1SJ121P	1W 120	1	
R102	CR10J100	0.1W 10	1	
R105	CR10J100	0.1W 10	1	
R112	CR10F2321	0.1W 2.32K	1	
R113	CR10J471	0.1W 470	1	
R114	CR100R00	0	1	
R115-19	CR10JR16	0.1W 0.16	5	
R120	CR10J120	0.1W 12	1	
R121	CR10J100	0.1W 10	1	
R122	ER0S2TKF4530	0.25W	1	
R123	CR10J122	0.1W 1.2K	1	
R124	CR10J102	0.1W 1K	1	
R125	CR10J101	0.1W 100	1	
R126	CR10J222	0.1W 2.2K	1	
R127	CR10J101	0.1W 100	1	
R128	CR10F2870	0.1W 287	1	
R129	CR10J101	0.1W 100	1	
R130	ERDS2FJ121	0.25W 120	1	
R131	CR10J102	0.1W 1K	1	
R132	CR10J471	0.1W 470	1	
R135	ER0S2TKF1430	0.25W	1	
R136	CR10J822	0.1W 8.2K	1	
R137	CR10J102	0.1W 1K	1	
R138	CR10J822	0.1W 8.2K	1	
R139	CR10J103	0.1W 10K	1	
R140	ERDS1FJ152	0.5W 1.5K	1	
R141,42	CR10J152	0.1W 1.5K	2	
R143	CR10J512	0.1W 5.1K	1	
R144	CR10J272	0.1W 2.7K	1	
R145	CR10J221	0.1W 220	1	
R146,47	CR10J103	0.1W 10K	2	
R148-52	CR10JR16	0.1W 0.16	5	
R154,55	CR10J103	0.1W 10K	2	
R156	CR10F2211	0.1W 2.21K	1	
R157	CR10F2941	0.1W 2.94K	1	
R160	CR10J101	0.1W 100	1	
R161	CR10J103	0.1W 10K	1	
R162,63	CR10J100	0.1W 10	2	
R167	CR10J822	0.1W 8.2K	1	
R168	CR10J153	0.1W 15K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R169	CR10J121	0.1W 120	1	
R170	CR10J101	0.1W 100	1	
R171	CR10J822	0.1W 8.2K	1	
R172	ERJ6GEYG821	0.1W 820	1	
R173	CR10J102	0.1W 1K	1	
R178	CR100R00	0	1	
R179,80	CR10J822	0.1W 8.2K	2	
R181	ERDS2FJ222	0.25W 2.2K	1	
R182	CR10J222	0.1W 2.2K	1	
R183,84	ERJ6GEYG271	0.1W 270	2	
R301	CR10J101	0.1W 100	1	
R302,03	CR10J103	0.1W 10K	2	
R304	CR10J472	0.1W 4.7K	1	
R305	CR10J102	0.1W 1K	1	
R306	CR10J472	0.1W 4.7K	1	
R307	CR10J683	0.1W 68K	1	
R308	CR10J472	0.1W 4.7K	1	
R310	CR10J752	0.1W 7.5K	1	
R311	CR10J103	0.1W 10K	1	
R312	CR10J102	0.1W 1K	1	
R314	CR10J472	0.1W 4.7K	1	
R315	CR10J822	0.1W 8.2K	1	
R316,17	CR10J103	0.1W 10K	2	
R318	CR10J223	0.1W 22K	1	
R319	CR10F2210	0.1W 221	1	
R320	CR10J223	0.1W 22K	1	
R321	CR10F2210	0.1W 221	1	
R322	CR10F1002	0.1W 10K	1	
R323	CR10F3321	0.1W 3.32K	1	
R324	CR10J103	0.1W 10K	1	
R325	CR10F1002	0.1W 10K	1	
R326	CR10F3321	0.1W 3.32K	1	
R327	CR10J103	0.1W 10K	1	
R328,29	CR10J473	0.1W 47K	2	
R330	CR10F6981	0.1W 6.98K	1	
R331	CR10F4642	0.1W 46.4K	1	
R332	CR10F6041	0.1W 6.04K	1	
R333	CR10F4642	0.1W 46.4K	1	
R334	ERJ6ENF5231	0.1W 5.23K	1	
R335	CR10F4752	0.1W 47.5K	1	
R336	ERJ6ENF5231	0.1W 5.23K	1	
R337	CR10F4752	0.1W 47.5K	1	
R338,39	ERJ6ENF1622	0.1W 16.2K	2	
R340,41	CR10F3320	0.1W 332	2	
R346	ERDS2FJ101	0.25W 100	1	
R347,48	CR10J103	0.1W 10K	2	
R349	CR10J472	0.1W 4.7K	1	
R350	CR10J102	0.1W 1K	1	
R351	CR10J472	0.1W 4.7K	1	
R352	CR10J683	0.1W 68K	1	
R353	CR10J472	0.1W 4.7K	1	
R354	CR10J752	0.1W 7.5K	1	
R355	CR10J103	0.1W 10K	1	
R356	CR10J102	0.1W 1K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R357	CR10J472	0.1W 4.7K	1	
R358	CR10J103	0.1W 10K	1	
T001	ETB28BF1R5A	TRANSFORMER	1	⚠
TH001	NC21F104J	THERMISTOR	1	
TH101	NC21F104J	THERMISTOR	1	
VR102,03	EVMEASA01B52	V.R.	2	
Z002	ERZVA7D471	VARISTOR	1	⚠
ZD001	RD56EB	DIODE	1	
ZD002	MAZ82700ML	DIODE	1	
ZD101	MA8039	DIODE	1	
ZD102	MA8027	DIODE	1	
ZD104	MA8051	DIODE	1	
ZD301	MA8051	DIODE	1	
ZD302,03	MAZ8051	DIODE	2	
ZD304	MA8051	DIODE	1	
■	03	REP3603B		
B7501	CR-2032/1GUF	LITHIUM BATTERY	1	
C1502	F2A1E221A210	25V 220U	1	
C1503,04	F2A1A471A211	10V 470U	2	
C1505,06	F2A0J471A256	6.3V 470U	2	
C1507	ECJ1VB1C104K	16V 0.1U	1	
C1508	F2A0J470A012	6.3V 47U	1	
C1509	F2A1E4700048	25V 47U	1	
C1510	ECJ1VB1C104K	16V 0.1U	1	
C1511	F2A0J470A012	6.3V 47U	1	
C1512	F2A1E4700048	25V 47U	1	
C1514	F2A1E4700048	25V 47U	1	
C1518	F2A1E4700048	25V 47U	1	
C1528	ECJ1VB1C104K	16V 0.1U	1	
C1530	F2A1E4700048	25V 47U	1	
C1532	ECJ1VB1C104K	16V 0.1U	1	
C3001-04	ECJ1VC1H470J	50V 47P	4	
C3005	ECJ1VC1H560J	50V 56P	1	
C3006,07	ECJ1VC1H390J	50V 39P	2	
C3008	ECJ1VB1H103K	50V 0.01U	1	
C3009	ECEA0JKS470	6.3V 47U	1	
C3010	ECUV1H680JCV	50V 68P	1	ECJ1VC1H680J
C3011	ECJ1VC1H390J	50V 39P	1	
C3012	ECJ1VB1H103K	50V 0.01U	1	
C3013	ECEA0JKS470	6.3V 47U	1	
C3014	ECJ1VC1H220J	50V 22P	1	
C3016	ECJ1VC1H220J	50V 22P	1	
C3017	ECJ1VB1H103K	50V 0.01U	1	
C3018	ECJ1VC1H220J	50V 22P	1	
C3019,20	ECJ1VC1H330J	50V 33P	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3022	ECJ1VB1H103K	50V 0.01U	1	
C3023	ECJ1VB1C104K	16V 0.1U	1	
C3024	ECEA0JKS470	6.3V 47U	1	
C3025	ECJ1VC1H102J	50V 1000P	1	
C3027	ECEA1HKS010	50V 1U	1	
C3028,29	ECJ1VB1H103K	50V 0.01U	2	
C3030	ECJ1VC1H561J	50V 560P	1	
C3031	ECJ1VB1C104K	16V 0.1U	1	
C3043	ECJ1VC1H560J	50V 56P	1	
C3044	ECJ1VB1C104K	16V 0.1U	1	
C3045	ECJ1VB0J105K	6.3V 1U	1	
C3046	ECEA0JKS470	6.3V 47U	1	
C3047	ECJ1VB1H103K	50V 0.01U	1	
C3048	ECJ1VB0J105K	6.3V 1U	1	
C3049	ECJ1VC1H150J	50V 15P	1	
C3050	ECJ1VB1C104K	16V 0.1U	1	
C3051	ECEA0JKS101	6.3V 100U	1	
C3052,53	ECEA0JKS470	6.3V 47U	2	
C3055	ECA0JM102	6.3V 1000U	1	
C3056	ECEA0JKS101	6.3V 100U	1	
C3057	ECJ1VB1C104K	16V 0.1U	1	
C3058	ECJ1VC1H560J	50V 56P	1	
C3059	ECA0JM102	6.3V 1000U	1	
C3060	ECEA0JKS101	6.3V 100U	1	
C3061	ECA0JM102	6.3V 1000U	1	
C3062	ECEA0JKS101	6.3V 100U	1	
C3063,64	ECEA0JKS331	6.3V 330U	2	
C3066	ECJ1VB1H102K	50V 1000P	1	
C3067	ECEA1HSN010	50V 1U	1	
C3068	ECEA0JKS220	6.3V 22U	1	
C3069	ECJ1VB1H103K	50V 0.01U	1	
C3070	ECJ1VB1H472K	50V 4700P	1	
C3071	ECJ1VB1H103K	50V 0.01U	1	
C3072,73	ECJ1VC1H470J	50V 47P	2	
C3074	ECJ1VC1H560J	50V 56P	1	
C3075	ECJ1VC1H390J	50V 39P	1	
C3076-84	ECJ1VB1H103K	50V 0.01U	9	
C3085	ECJ1VB1H473K	50V 0.047U	1	
C3086-91	ECJ1VB1H103K	50V 0.01U	6	
C3092	ECJ1VB1C104K	16V 0.1U	1	
C3093,94	ECJ1VB1H103K	50V 0.01U	2	
C3095	ECEA0JKS470	6.3V 47U	1	
C3096	ECJ1VB1C104K	16V 0.1U	1	
C3097	ECJ1VC1H220J	50V 22P	1	
C3098	ECJ1VC1H150J	50V 15P	1	
C3099	ECJ1VC1H220J	50V 22P	1	
C3100	ECJ1VB1H103K	50V 0.01U	1	
C3101,02	ECEA0JKS470	6.3V 47U	2	
C3103	ECJ1VC1H180J	50V 18P	1	
C3104	ECJ1VC1H102J	50V 1000P	1	
C3901	ECJ1VB1C104K	16V 0.1U	1	
C3902	ECJ1VB1H103K	50V 0.01U	1	
C3904-06	ECJ1VB1H103K	50V 0.01U	3	
C3907	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4003	F2A1H100A236	50V 10U	1	
C4005	F2A1E470A205	25V 47U	1	
C4006	F2A1H100A236	50V 10U	1	
C4021	ECJ1VF1C104Z	16V 0.1U	1	
C4023	F2A1H100A236	50V 10U	1	
C4025	F2A1H100A236	50V 10U	1	
C4026	ECJ1VF1C104Z	16V 0.1U	1	
C4028	ECJ1VF1C104Z	16V 0.1U	1	
C4029	F2A1C102A236	16V 1000U	1	
C4030	ECJ1VF1C104Z	16V 0.1U	1	
C4033,34	F2A1C4700011	16V 47U	2	
C4037-42	F2A1H100A236	50V 10U	6	
C4043	ECJ1VF1C104Z	16V 0.1U	1	
C4052	ECJ1VF1C104Z	16V 0.1U	1	
C4055	ECJ1VF1C104Z	16V 0.1U	1	
C4056	F2A0J471A247	6.3V 470U	1	
C4057	ECJ2VC1H680J	50V 68P	1	
C4058,59	ECJ1VF1C104Z	16V 0.1U	2	
C4060	ECJ2VC1H680J	50V 68P	1	
C4061	ECJ1VF1C104Z	16V 0.1U	1	
C4062	ECA1AM221	10V 220U	1	
C4063,64	F2A1C4700011	16V 47U	2	
C4065	ECJ1VF1C104Z	16V 0.1U	1	
C4068	ECJ1VF1C104Z	16V 0.1U	1	
C4070	ECA1AM221	10V 220U	1	
C4072	ECA1AM221	10V 220U	1	
C4074	ECJ1VF1C104Z	16V 0.1U	1	
C4076-78	ECJ1VF1C104Z	16V 0.1U	3	
C4079,80	ECJ1VC1H330J	50V 33P	2	
C4082-85	ECJ2VC1H102J	50V 1000P	4	
C4901	F2A0J470A179	6.3V 47U	1	
C4902	ECJ1VF1C104Z	16V 0.1U	1	
C4903	F2A0J470A179	6.3V 47U	1	
C4904,05	ECJ1VF1C104Z	16V 0.1U	2	
C7404	ECJ1VB1H103K	50V 0.01U	1	
C7405	F2A0J470A013	6.3V 47U	1	
C7411	ECJ1VB1C104K	16V 0.1U	1	
C7412	F2A1A470A140	10V 47U	1	
C7416	ECJ1VB1H103K	50V 0.01U	1	
C7417	F2A1H1R0A147	50V 1U	1	F2A1H1R0A146
C7432,33	F2A1C100A019	16V 10U	2	
C7438	ECJ1VB1C104K	16V 0.1U	1	
C7439	F2A0J470A013	6.3V 47U	1	
C7502	ECJ1VB1H103K	50V 0.01U	1	
C7503	ECJ1VB1C104K	16V 0.1U	1	
C7504-06	ECJ1VC1H100C	50V 10P	3	
C7507,08	ECJ1VB1H103K	50V 0.01U	2	
C7517	ECJ1VB1H103K	50V 0.01U	1	
C7518,19	ECJ1VF1C104Z	16V 0.1U	2	
C7523,24	ECJ1VB1H103K	50V 0.01U	2	
C7525	F2A1H100A248	50V 10U	1	
C7526	ECJ1VF1H104Z	50V 0.1U	1	
C7528	F2A1C221A243	16V 220U	1	
C7529	F2A0J221A256	6.3V 220U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7531	ECQB1H223KF3	50V 0.022U	1	
C7532	F2A1V470A190	35V 47U	1	
C7533	F2A1H100A248	50V 10U	1	
C7534	ECJ1VC1H100C	50V 10P	1	
C7535	ECJ1VF1C104Z	16V 0.1U	1	
C7536	ECJ1VC1H120J	50V 12P	1	
C7537	ECJ1VF1A105Z	10V 1U	1	
C7539	ECJ1VC1H101J	50V 100P	1	
C7543-45	ECJ1VC1H101J	50V 100P	3	
C7546	ECJ1VF1C104Z	16V 0.1U	1	
C7547,48	ECJ1VC1H030C	50V 3P	2	
C7585	ECJ1VB1H103K	50V 0.01U	1	
C7586	ECEA1CKA470	16V 47U	1	
C7587	ECJ1VB1H103K	50V 0.01U	1	
C9701,02	ECJ1VF1C104Z	16V 0.1U	2	
D3001	MA2C165001VT	DIODE	1	
D4005,06	MA3Z142D0RG	DIODE	2	
D7401	MA4300N-M	DIODE	1	MAZ4300NM
D7502	MAZ4240NMF	DIODE	1	
D7503	ERA22-02	DIODE	1	B0HAGM000001
D7505,06	MA2C18500E	DIODE	2	
D7507	MA4300N-M	DIODE	1	MAZ4300NM
D7513,14	B0JACE000001	DIODE	2	
DP7501	A2BD00000064	FL DISPLAY TUBE	1	
IC1502	C0DBEFG00002	IC	1	
IC1503	C0DBZFD00015	IC	1	
IC1504	C0DBZGG00010	IC	1	
IC1505	C0DBZHG00012	IC	1	
IC1508	C0DBZHE00014	IC	1	
IC1509	C0DBZFG00012	IC	1	
IC1513	C0DBZHE00014	IC	1	
IC3002	C2BBFE000137	IC	1	
IC3003	C1AB00001735	IC	1	
IC3005	C9ZB00000377	IC	1	
IC4002	C0JBAR000285	IC	1	
IC4003	C0ABBB000118	IC	1	
IC4009	C0ABBB000216	IC	1	
IC4010	C0DBZJG00006	IC	1	
IC4011	C0DBZHG00012	IC	1	
IC4012	C0ABBB000118	IC	1	
IC4901	C0JBAB000173	IC	1	
IC7405	C0BBBB000006	IC	1	
IC7501	C2BBGF000419	IC	1	
IC7502	C0EBJ0000143	IC	1	
IC7503	C0EBF0000182	IC	1	
IC7504	C0ZBZ0000732	IC	1	
IC7505	C0EBH0000263	IC	1	
IC7507	NJM2904M	IC	1	C0ABBA000021
IP7501	D4FAR4000001	IC PROTECTOR	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JK3901	K1U822B00001	JACK,AV OUT	1	
JK3902	K1U820B00002	JACK,VIDEO OUT	1	
JK3903	K1U407B00003	JACK,AV OUT	1	
K7401	ERJ3GEY0R00V	1/16W 0	1	
K7413,14	ERJ3GEY0R00V	1/16W 0	2	
K7504	ERJ3GEY0R00V	1/16W 0	1	
L3001	G0C120JA0019	COIL 12UH	1	
L3002	G0C220JA0019	COIL 22UH	1	
L3003,04	G0C120JA0019	COIL 12UH	2	
L3005	G0C220JA0019	COIL 22UH	1	
L3006	G0C120JA0019	COIL 12UH	1	
L3007	G0C4R7JA0019	COIL 4.7UH	1	
L3008	G0C220JA0019	COIL 22UH	1	
L3009,10	G0C4R7JA0019	COIL 4.7UH	2	
L3012	G0C4R7JA0019	COIL 4.7UH	1	
L3014	G0C120JA0019	COIL 12UH	1	
L3015,16	G0C4R7JA0019	COIL 4.7UH	2	
L3017,18	G0C120JA0019	COIL 12UH	2	
L3019	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3020	G0C120JA0019	COIL 12UH	1	
L3021	VLQ0599J6R8	COIL 6.8UH	1	G0C6R8JA0026
L3022,23	G0C120JA0019	COIL 12UH	2	
L4901	ELESE220KA	COIL 22UH	1	
L7501	ELESE101K	COIL 100UH	1	
L7502	G0C220JA0019	COIL 22UH	1	
LB1501-05	J0JHC0000032	COIL	5	
LB3001	VLP0323A601T	COIL	1	J0JCC0000103
LB3901-04	VLP0323A601T	COIL	4	J0JCC0000103
LB3908-18	VLP0323A601T	COIL	11	J0JCC0000103
LB4901	ERJ3GEYJ331V	1/16W 330U	1	
LB4902	J0JGC0000020	COIL	1	
LB4907-14	VLP0323A601T	COIL	8	J0JCC0000103
LB7402,03	J0JHC0000032	COIL	2	
LB7408	J0JHC0000032	COIL	1	
LB7508	G0ZZ00001936	COIL	1	
LB9701,02	J0JHC0000032	COIL	2	
LB9703,04	ERJ3GEY0R00V	1/16W 0	2	
P7501	K1KB20B00040	CONNECTOR(20P)	1	
P7503	K1KA03A00173	CONNECTOR(3P)	1	
PP1501	K1KA19A00016	CONNECTOR(19P)	1	
PP1503	K1KA15A00124	CONNECTOR(15P)	1	
PP9701-03	K1KA30A00180	CONNECTOR(30P)	3	
Q3001,02	2SB1218A	TRANSISTOR	2	
Q3003	2SA153200L	TRANSISTOR	1	
Q3004	2SB1218A	TRANSISTOR	1	
Q3005	2SD1819A0L	TRANSISTOR	1	
Q3006,07	2SB1218A	TRANSISTOR	2	
Q3008	2SD1819A0L	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q3009	2SB1218A	TRANSISTOR	1	
Q3010	2SD1819A0L	TRANSISTOR	1	
Q3011	2SC393000L	TRANSISTOR	1	
Q3012	2SD1819A0L	TRANSISTOR	1	
Q3015	2SB1218A	TRANSISTOR	1	
Q4004	2SB1218A	TRANSISTOR	1	
Q4006-09	2SD132800L	TRANSISTOR	4	
Q7401	2SB1218A	TRANSISTOR	1	
Q7501	2SD1994B	TRANSISTOR	1	2SD1994BR1VT
Q7502	2SD0601A	TRANSISTOR	1	2SD0601A0L
Q7509	2SD0874A0L	TRANSISTOR	1	
Q7510,11	2SD0601A	TRANSISTOR	2	2SD0601A0L
QR3001	UN5211	TRANSISTOR	1	UNR5211
QR3002	UN5213TX	TRANSISTOR	1	UNR521300L
QR3004,05	UN5211	TRANSISTOR	2	UNR5211
QR3006-10	UN5213TX	TRANSISTOR	5	UNR521300L
QR3011	UN5113TW	TRANSISTOR	1	
QR4002-07	UN5211	TRANSISTOR	6	UNR5211
QR4010-12	UN5211	TRANSISTOR	3	UNR5211
QR7401	UN5213TX	TRANSISTOR	1	UNR521300L
QR7501	UN5212TX	TRANSISTOR	1	UNR521200L
QR7504	UN5113TW	TRANSISTOR	1	
R1501	ERJ3GEY0R00V	1/16W 0	1	
R1502	ERJ3GEYJ471V	1/16W 470	1	
R1515	ERDS2FJ271	1/4W 270	1	
R3001	MCR03PZHJ561	1/16W 560	1	
R3002,03	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3004	MCR03PZHJ561	1/16W 560	1	
R3005	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3006	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3007	ERJ3GEYJ102V	1/16W 1K	1	
R3008	MCR03PZHJ561	1/16W 560	1	
R3009	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3010	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3011	ERJ3GEYJ102V	1/16W 1K	1	
R3012-14	ERJ3GEY0R00V	1/16W 0	3	
R3015,16	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3017,18	ERJ3GEYJ102V	1/16W 1K	2	
R3019	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3020	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3021	ERJ3GEYJ472V	1/16W 4.7K	1	
R3022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3024	ERJ3GEYJ102V	1/16W 1K	1	
R3025	MCR03PZHJ561	1/16W 560	1	
R3026	ERJ3GEYJ102V	1/16W 1K	1	
R3027	ERJ3GEYJ105V	1/16W 1M	1	
R3028	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3029	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3030	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3032,33	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3039	ERJ3GEYJ221V	1/16W 220	1	
R3040	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3041	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3042	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3043	ERJ3GEYJ102V	1/16W 1K	1	
R3044,45	ERJ3GEYJ151V	1/16W 150	2	
R3046	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3047	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3048	ERJ3GEYJ102V	1/16W 1K	1	
R3049,50	ERJ3GEYJ151V	1/16W 150	2	
R3051	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3052	MCR03PZHJ561	1/16W 560	1	
R3053	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3054	ERJ3GEYJ104	1/16W 100K	1	
R3055	ERJ3GEYJ102V	1/16W 1K	1	
R3056	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3057	ERJ3GEYJ471V	1/16W 470	1	
R3058	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3060	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3061	ERJ3GEYJ152V	1/16W 1.5K	1	
R3062	ERJ3GEYJ102V	1/16W 1K	1	
R3063	ERJ3GEY0R00V	1/16W 0	1	
R3064	ERJ3GEYJ102V	1/16W 1K	1	
R3065,66	ERJ3GEY0R00V	1/16W 0	2	
R3067	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3068	ERJ3GEY0R00V	1/16W 0	1	
R3070,71	ERJ3GEY0R00V	1/16W 0	2	
R3072	ERJ3GEYJ102V	1/16W 1K	1	
R3073,74	ERJ3GEYJ221V	1/16W 220	2	
R3075,76	ERJ3GEY0R00V	1/16W 0	2	
R3077	ERJ3GEYJ102V	1/16W 1K	1	
R3080	ERJ3GEY0R00V	1/16W 0	1	
R3084,85	ERJ3GEYJ912V	1/16W 9.1K	2	
R3086	ERJ3GEY0R00V	1/16W 0	1	
R3087	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3096	ERJ3GEYJ271V	1/16W 270	1	
R3099	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3100	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3102,03	ERJ3GEYJ472V	1/16W 4.7K	2	
R3106	ERJ3GEYJ102V	1/16W 1K	1	
R3107	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3108	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3901-08	ERJ3GEYJ750	1/16W 75	8	
R3920-24	ERJ3GEYJ750	1/16W 75	5	
R3926,27	ERJ3GEYJ750	1/16W 75	2	
R4002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4003	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4004	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4006	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R4008	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4011	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4013	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4014	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4015	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R4017	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4021,22	ERJ3GEY0R00V	1/16W 0	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4024	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R4026	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R4030	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4037,38	ERJ3GEYJ184V	1/16W 180K	2	
R4040-43	ERJ3GEYJ184V	1/16W 180K	4	
R4044,45	ERJ3GEY0R00V	1/16W 0	2	
R4046,47	D0HB752ZA002	1/16W 7.5K	2	
R4048	ERJ3GEYJ184V	1/16W 180K	1	
R4049-54	ERJ3GEYJ683V	1/16W 68K	6	D0GB683JA002
R4055	D0HB153ZA002	1/16W 15K	1	
R4057	D0HB153ZA002	1/16W 15K	1	
R4060-65	ERJ3GEYJ183V	1/16W 18K	6	D0GB183JA002
R4066,67	JAR0816P103D	1/16W 10K	2	D0HB103ZA002
R4068	ERJ3GEYJ184V	1/16W 180K	1	
R4071	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4072,73	ERJ3GEYJ563V	1/16W 56K	2	
R4074	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4076,77	ERJ3GEYJ821V	1/16W 820	2	
R4078,79	ERJ3GEYJ272V	1/16W 2.7K	2	
R4080,81	ERJ3GEYJ821V	1/16W 820	2	
R4088,89	ERJ3GEYJ272V	1/16W 2.7K	2	
R4090-93	ERJ3GEYJ221V	1/16W 220	4	
R4903	ERJ3GEY0R00V	1/16W 0	1	
R7403,04	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7405	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7406,07	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7408,09	ERJ3GEY0R00V	1/16W 0	2	
R7418,19	ERG2SJ471E	2W 470	2	
R7445	ERJ3RBD222V	1/16W 2.2K	1	
R7446	ERJ3RBD153	1/16W 15K	1	
R7447	ERJ3RBD102V	1/16W 1K	1	
R7448	ERJ3RBD222V	1/16W 2.2K	1	
R7451	ERJ3RBD133V	1/16W 13K	1	
R7452	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R7501	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7502	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7503	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7504	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7505	ERJ3GEYJ472V	1/16W 4.7K	1	
R7506-10	ERJ3GEYJ101	1/16W 100	5	D0GB101JA002
R7513,14	ERJ3GEYJ221V	1/16W 220	2	
R7515,16	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7518	ERDS2FJ331	1/4W 330	1	
R7519	ERDS2FJ3R9	1/4W 3.9	1	
R7521	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R7522,23	ERJ3GEYJ104	1/16W 100K	2	
R7524	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7525	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7526,27	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7528	ERJ3GEYJ221V	1/16W 220	1	
R7529-31	ERJ3RBD822	1/16W 8.2K	3	
R7532-34	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
R7536	ERJ3GEYJ472V	1/16W 4.7K	1	
R7537	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7540	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7541-43	ERJ3GEYJ473V	1/16W 47K	3	D0GB473JA002
R7544	ERJ3GEYJ221V	1/16W 220	1	
R7545	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7546	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7547	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R7548,49	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7550	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R7554,55	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R7556	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R7557	ERJ3GEY0R00V	1/16W 0	1	
R7558,59	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R7563	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7564	ERJ3GEYJ102V	1/16W 1K	1	
R7565	ERJ3GEYJ104	1/16W 100K	1	
R7566-73	ERJ3GEYJ683V	1/16W 68K	8	D0GB683JA002
R7574-78	ERJ3GEYJ104	1/16W 100K	5	
R7580-82	ERJ3GEYJ104	1/16W 100K	3	
R7586	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7587	ERJ3GEYJ221V	1/16W 220	1	
R7588	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R7590	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R7600	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R7601	ERJ3GEYJ821V	1/16W 820	1	
R7602	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
T7501	ETS13TB119AP	TRANSFORMER	1	⚠
TU7401	ENGD6201D	TUNER PACK	1	
W501-08	ERJ3GEY0R00V	1/16W 0	8	
W510-20	ERJ3GEY0R00V	1/16W 0	11	
W522-25	ERJ3GEY0R00V	1/16W 0	4	
X3001	H0D800400016	CRYSTAL OSCILLATOR	1	
X7501	H0A327200082	CRYSTAL OSCILLATOR	1	
X7502	H0D419400020	CRYSTAL OSCILLATOR	1	
ZJ7401	VJR0978	EARTH ANGLE	1	K9ZZ00000424
ZJ9701	VJR0978	EARTH ANGLE	1	K9ZZ00000424
■	04	REP3543E/EF/EG		
C3201,02	ECJ1VB1C104K	16V 0.1U	2	
C3203	ECJ1VB1H222K	50V 2200P	1	
C3205	ECJ1VB1C104K	16V 0.1U	1	
C3207	ECJ1VB1H103K	50V 0.01U	1	
C3208	EEEHB0J220R	6.3V 22P	1	
C3211	ECJ1VF1C104Z	16V 0.1U	1	
C3213	EEEHB0J220R	6.3V 22P	1	
C3216	ECJ1VB1H103K	50V 0.01U	1	
C3217-26	ECJ1VB1C104K	16V 0.1U	10	
C3227	EEEHB0J101P	6.3V 100P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3229,30	ECJ1VB1H102K	50V 1000P	2	
C3231	ECJ1VB1H103K	50V 0.01U	1	
C3502	ECJ1VB1H103K	50V 0.01U	1	
C3601	ECJ1VB1H103K	50V 0.01U	1	
C3602,03	ECJ1VF1C104Z	16V 0.1U	2	
C4402	ECJ1VF1C104Z	16V 0.1U	1	
C4403	F2G0J331A015	6.3V 330U	1	
C4406	EEEHB0J220R	6.3V 22P	1	
C4407	ECJ1VF1C104Z	16V 0.1U	1	
C4408	EEEHB0J101P	6.3V 100P	1	
C4409-14	ECJ1VB1H102K	50V 1000P	6	
C4415	EEEHB1E4R7R	25V 4.7P	1	
C4416	ECJ1VF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418,19	ECJ1VF1C104Z	16V 0.1U	2	
C6001	ECJ1VF1C104Z	16V 0.1U	1	
C9001	EEEHB0J470R	6.3V 47P	1	
C9003-06	EEEHB0J470R	6.3V 47P	4	
C9008	EEEHB0J470R	6.3V 47P	1	
C9009,10	ECJ1VC1H470J	50V 47P	2	
C9011	EEEHB0J470R	6.3V 47P	1	
C9013	EEEHB0J470R	6.3V 47P	1	
C9015	ECJ1VF1C104Z	16V 0.1U	1	
C9016	EEEHB0J470R	6.3V 47P	1	
C9017	ECJ1VF1C104Z	16V 0.1U	1	
C9019	F1J0J106A014	6.3V 10U	1	
C37001	ECUV1H271JCV	50V 270P	1	ECJ1VC1H271J
C37002,03	ECJ2YB1A105K	10V 1U	2	
C37007,08	ECJ1VC1H120J	50V 12P	2	
C37009	ECJ1VB1C104K	16V 0.1U	1	
C37011	ECJ1VB1C104K	16V 0.1U	1	
C37012	EEEHB0J470R	6.3V 47P	1	
C37013	ECJ1VB1C104K	16V 0.1U	1	
C37014	ECJ2YB1A105K	10V 1U	1	
C37015	EEEHB0J101P	6.3V 100P	1	
C37025	ECJ1VB1C104K	16V 0.1U	1	
C37031	ECJ1VC1H180J	50V 18P	1	
C37032	ECJ1VC1H330J	50V 33P	1	
C37033	ECJ1VB1C104K	16V 0.1U	1	
C37034	ECJ2YB1A105K	10V 1U	1	
C37035,36	ECJ1VC1H560J	50V 56P	2	
C50001	ECJ1VF1C104Z	16V 0.1U	1	
C50007	ECJ1VB1C104K	16V 0.1U	1	
C50008,09	ECJ1VB0J105K	6.3V 1U	2	
C50010	EEEHB0J220R	6.3V 22P	1	
C50013,14	ECJ1VF1C104Z	16V 0.1U	2	
C50015	EEEHB0J220R	6.3V 22P	1	
C50016	ECJ1VF1C104Z	16V 0.1U	1	
C50018	EEEHB0J101P	6.3V 100P	1	
C50025	ECST1AY106R	10V 10U	1	
C50026	EEEHB0J470R	6.3V 47P	1	
C50027	EEEHB1C100R	16V 10P	1	
C50028	ECJ1VF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D3201,02	MA3S132E0L	DIODE	2	
D3203,04	MA2ZV0100L	DIODE	2	
D9001	MA3Z142K0LG	DIODE	1	
FL3201	F1H0J1050018	FILTER	1	
FL3205-13	F1H0J1050018	FILTER	9	
FL3216	F1H0J1050018	FILTER	1	
FL3218	F1H0J1050018	FILTER	1	
FL3220	F1H0J1050018	FILTER	1	
FL3222	F1H0J1050018	FILTER	1	
FL3225	F1H0J1050018	FILTER	1	
FL3401-06	F1H0J1050018	FILTER	6	
FL3409-11	F1H0J1050018	FILTER	3	
FL3421	F1H0J1050018	FILTER	1	
FL3428	F1H0J1050018	FILTER	1	
FL3501-14	F1H0J1050018	FILTER	14	
FL3601-10	F1H0J1050018	FILTER	10	
FL3614	F1H0J1050018	FILTER	1	
FL4401,02	F1H0J1050018	FILTER	2	
FL6001-13	F1H0J1050018	FILTER	13	
FL6701-03	F1H0J1050018	FILTER	3	
FL9003-05	F1H0J1050018	FILTER	3	
FL9007	F1H0J1050018	FILTER	1	
FL9012,13	F1H0J1050018	FILTER	2	
FL9016	F1H0J1050018	FILTER	1	
FL9020	F1H0J1050018	FILTER	1	
FL9022	F1H0J1050018	FILTER	1	
FL37001-09	F1H0J1050018	FILTER	9	
FL37012	F1H0J1050018	FILTER	1	
FL37014,15	F1H0J1050018	FILTER	2	
FL50001,02	F1H0J1050018	FILTER	2	
FL50005-14	F1H0J1050018	FILTER	10	
FL50016-21	F1H0J1050018	FILTER	6	
FL50023	F1H0J1050018	FILTER	1	
FL50025	F1H0J1050018	FILTER	1	
FL50028	F1H0J1050018	FILTER	1	
FP3501,02	K1MN40A00021	CONNECTOR(40P)	2	
IC3201	C3ABMG000103	IC	1	
IC3202	C1ZBZ0002277	IC	1	
IC3203	MN673744R	IC	1	MN673744
IC3204,05	C0JBAB000474	IC	2	
IC3206	C0JBAR000332	IC	1	
IC3401	C3ABPJ000018	IC	1	
IC3402	MN85572R	IC	1	MN85572
IC3501,02	C3ABQG000043	IC	2	
IC3503	MN88301	IC	1	
IC3603	C0JBAZ001776	IC	1	
IC3604	TC7SH04FUTL	IC	1	C0JBAB000175
IC3607	C3ABPJ000018	IC	1	
IC3608	C0ZBZ0000720	IC	1	
IC3609	C0JBAF000162	IC	1	
IC4402	C0ABBB000105	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC4403	C0FBAK000008	IC	1	
IC4404	C0JBAA000257	IC	1	
IC6001	C0EBE0000130	IC	1	
IC6002,03	C3ABRG000016	IC	2	
IC6004	MNZE0500YDR	IC	1	
IC6006	C3CBKD000120	IC	1	
IC6007	74LCX16244MT	IC	1	C0JBAZ001475
IC6701	C1ZBZ0002255	IC	1	
IC6702	C0JBAB000474	IC	1	
IC6704	REP3543E	DIGITAL P.C.B.	1	(P)
IC6704	REP3543EF	DIGITAL P.C.B.	1	(PC)
IC6704	REP3543EG	DIGITAL P.C.B.	1	(PL)
IC9001	C0DBZFE00003	IC	1	
IC9002	C0DBCGD00001	IC	1	
IC37001	MN673745	IC	1	
IC37002	C1DB00000526	IC	1	
IC37003	BH7086KV	IC	1	C1ZBZ0001649
IC37006	C1BB00000699	IC	1	
IC37008	C0JBAA000102	IC	1	
IC37011	C0JBAA000102	IC	1	
IC50001	C1DB00000895	IC	1	
IC50002	C3ABPG000067	IC	1	
IC50003	MN6775511	IC	1	
IC50004	C3ABPG000067	IC	1	
IC50005	C0JBAR000332	IC	1	
IC50006	C0JBAB000474	IC	1	
IC50009	C0JBAZ001776	IC	1	
IC50010	C0FBBK000035	IC	1	
IC50011	C0CBCBD00002	IC	1	
IC50013	C0JBAD000107	IC	1	
IC50014	C0JBAF000206	IC	1	
IC50015	C0CBCBD00002	IC	1	
L37001	VLQ0426J120	COIL 12UH	1	G1C120J00005
LB3201-05	J0JHC0000032	COIL	5	
LB3401,02	J0JHC0000032	COIL	2	
LB3501	J0JHC0000032	COIL	1	
LB3502,03	J0JHC0000045	COIL	2	
LB4401-03	J0JGC0000020	COIL	3	
LB9001	J0JHC0000032	COIL	1	
LB9003	J0JHC0000045	COIL	1	
LB9004,05	J0JHC0000032	COIL	2	
LB9006	J0JHC0000045	COIL	1	
LB9007-11	J0JHC0000032	COIL	5	
LB9012	J0JHC0000045	COIL	1	
LB9020,21	VLP0323A601T	COIL	2	J0JCC0000103
LB9038	ERJ3GEYJ221V	1/16W 220	1	
LB37001,02	J0JHC0000032	COIL	2	
LB37005	J0JHC0000032	COIL	1	
LB50001	J0JHC0000032	COIL	1	
LB50003	J0JGC0000020	COIL	1	
LB50004,05	J0JHC0000032	COIL	2	
LB50006	J0JGC0000020	COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P3503	K1KA70A00037	CONNECTOR(70P)	1	
P6001	K1KA06A00328	CONNECTOR(6P)	1	
PS9001-03	K1KB30A00135	CONNECTOR(30P)	3	
PS37001	K1KB08B00055	CONNECTOR(8P)	1	
Q3201	2SB1218A	TRANSISTOR	1	
Q3202	2SD1819A0L	TRANSISTOR	1	
Q6701-04	2SD0601A	TRANSISTOR	4	2SD0601A0L
Q50001-05	2SB1218A	TRANSISTOR	5	
QR3501	UN5213TX	TRANSISTOR	1	UNR521300L
QR3503	UN5213TX	TRANSISTOR	1	UNR521300L
QR9001	UNR511100L	TRANSISTOR	1	
QR9005	UN5213TX	TRANSISTOR	1	UNR521300L
R3203,04	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3205	ERJ3GEYJ622V	1/16W 6.2K	1	
R3211,12	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R3216	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3217,18	ERJ3GEYJ220V	1/16W 22	2	
R3219	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3220,21	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R3222	ERJ3GEYJ104	1/16W 100K	1	
R3223	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3224	ERJ3GEYJ102V	1/16W 1K	1	
R3226	ERJ3GEY0R00V	1/16W 0	1	
R3232	ERJ3GEYJ220V	1/16W 22	1	
R3233	ERJ3GEY0R00V	1/16W 0	1	
R3237,38	ERJ3GEY0R00V	1/16W 0	2	
R3239	ERJ3GEYJ104	1/16W 100K	1	
R3240	ERJ3GEYJ105V	1/16W 1M	1	
R3241	ERJ3GEYJ681V	1/16W 680	1	D0GB681JA002
R3242	ERJ3GEYJ104	1/16W 100K	1	
R3254	ERJ3GEYJ220V	1/16W 22	1	
R3261	ERJ3GEY0R00V	1/16W 0	1	
R3401	ERJ3GEYJ390	1/16W 39	1	
R3402	ERJ3GEYJ220V	1/16W 22	1	
R3403	ERJ3GEY0R00V	1/16W 0	1	
R3404	ERJ3GEYJ220V	1/16W 22	1	
R3406	ERJ3GEYJ220V	1/16W 22	1	
R3415,16	ERJ3GEYJ220V	1/16W 22	2	
R3423	ERJ3GEYJ220V	1/16W 22	1	
R3425	ERJ3GEY0R00V	1/16W 0	1	
R3427	ERJ3GEY0R00V	1/16W 0	1	
R3503	ERJ3GEYJ220V	1/16W 22	1	
R3504-06	ERJ3GEYJ330V	1/16W 33	3	D0GB330JA002
R3507,08	ERJ3GEYJ220V	1/16W 22	2	
R3509-12	ERJ3GEYJ330V	1/16W 33	4	D0GB330JA002
R3513	ERJ3GEY0R00V	1/16W 0	1	
R3514	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3515	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3516,17	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3519-25	ERJ3GEY0R00V	1/16W 0	7	
R3526-29	ERJ3GEYJ330V	1/16W 33	4	D0GB330JA002
R3531	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3533	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3534	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R3535	ERJ3GEYJ102V	1/16W 1K	1	
R3536	ERJ3GEY0R00V	1/16W 0	1	
R3538	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3539,40	ERJ3GEYJ820V	1/16W 82	2	
R3541	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002
R3542,43	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3544	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3545,46	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R3547	ERJ3GEYJ102V	1/16W 1K	1	
R3548	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3601	ERJ3GEY0R00V	1/16W 0	1	
R3603-07	ERJ3GEYJ473V	1/16W 47K	5	D0GB473JA002
R3608	ERJ3GEY0R00V	1/16W 0	1	
R3609	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3610	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R3611	ERJ3GEYJ221V	1/16W 220	1	
R3612	ERJ3GEY0R00V	1/16W 0	1	
R3613-15	ERJ3GEYJ220V	1/16W 22	3	
R3616	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3617	ERJ3GEYJ221V	1/16W 220	1	
R3618	ERJ3GEYJ220V	1/16W 22	1	
R3619,20	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3622,23	ERJ3GEY0R00V	1/16W 0	2	
R3624-27	ERJ3GEYJ220V	1/16W 22	4	
R3628,29	ERJ3GEYJ472V	1/16W 4.7K	2	
R3630	ERJ3GEYJ102V	1/16W 1K	1	
R3631	ERJ3GEY0R00V	1/16W 0	1	
R3633	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3634	ERJ3GEY0R00V	1/16W 0	1	
R3636	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3637	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3638-48	ERJ3GEY0R00V	1/16W 0	11	
R3649	ERJ3GEYJ220V	1/16W 22	1	
R3650	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3652,53	ERJ3GEY0R00V	1/16W 0	2	
R3654,55	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R3656-58	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R3660	ERJ3GEY0R00V	1/16W 0	1	
R3661	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3662	ERJ3GEY0R00V	1/16W 0	1	
R3664-67	ERJ3GEY0R00V	1/16W 0	4	
R3680	ERJ3GEY0R00V	1/16W 0	1	
R3691	ERJ3GEY0R00V	1/16W 0	1	
R3692	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R3693-95	ERJ3GEY0R00V	1/16W 0	3	
R3697	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4403,04	ERJ3RBD103V	1/16W 10K	2	
R4405,06	ERJ3RBD682	1/16W 6.8K	2	ERJ3RBD682V
R4407,08	ERJ3RBD103V	1/16W 10K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4411	ERJ3GEYJ221V	1/16W 220	1	
R4412,13	ERJ3GEY0R00V	1/16W 0	2	
R4415,16	ERJ3GEY0R00V	1/16W 0	2	
R4418,19	ERJ3GEYJ470V	1/16W 47	2	
R4420,21	ERJ3GEY0R00V	1/16W 0	2	
R6001,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6003,04	ERJ3GEYJ222V	1/16W 2.2K	2	D0GB222JA002
R6005	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6006	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6007-09	ERJ3GEYJ470V	1/16W 47	3	
R6010	ERJ3GEYJ102V	1/16W 1K	1	
R6011	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6012	ERJ3GEYJ221V	1/16W 220	1	
R6013,14	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6015	ERJ3GEYJ105V	1/16W 1M	1	
R6016	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6017	ERJ3GEYJ470V	1/16W 47	1	
R6019	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6023	ERJ3GEY0R00V	1/16W 0	1	
R6024	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6029	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R6701,02	ERJ3GEYJ332V	1/16W 3.3K	2	D0GB332JA002
R6704,05	ERJ3GEYJ470V	1/16W 47	2	
R6706	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6707	ERJ3GEYJ104	1/16W 100K	1	
R6708	ERJ3GEY0R00V	1/16W 0	1	
R6709-18	ERJ3GEYJ470V	1/16W 47	10	
R6719	ERJ3GEYJ333V	1/16W 33K	1	D0GB333JA002
R6720,21	ERJ3GEYJ470V	1/16W 47	2	
R6722	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6723-26	ERJ3GEYJ470V	1/16W 47	4	
R6727	ERJ3GEY0R00V	1/16W 0	1	
R6728	ERJ3GEYJ104	1/16W 100K	1	
R6729	ERJ3GEYJ470V	1/16W 47	1	
R6730	ERJ3GEYJ102V	1/16W 1K	1	
R6731,32	ERJ3GEYJ470V	1/16W 47	2	
R6733-38	ERJ3GEY0R00V	1/16W 0	6	
R6739	ERJ3GEYJ470V	1/16W 47	1	
R6740,41	ERJ3GEY0R00V	1/16W 0	2	
R6742	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6743	ERJ3GEY0R00V	1/16W 0	1	
R6744,45	ERJ3GEYJ470V	1/16W 47	2	
R6746,47	ERJ3GEY0R00V	1/16W 0	2	
R6748	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6749	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6750	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6753	ERJ3GEYJ472V	1/16W 4.7K	1	
R6755	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R9010	ERJ3GEY0R00V	1/16W 0	1	
R9012	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R9013	ERJ3GEY0R00V	1/16W 0	1	
R9015	ERJ3GEYJ562V	1/16W 5.6K	1	D0GB562JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R36001	ERJ3GEYJ221V	1/16W 220	1	
R36002	ERJ3GEYJ220V	1/16W 22	1	
R37001-04	ERJ3RED560V	1/16W 56	4	
R37005	ERJ3RBD512	1/16W 5.1K	1	
R37006	ERJ3GEYJ105V	1/16W 1M	1	
R37007	ERJ3RBD622	1/16W 6.2K	1	
R37008	ERJ3EKF1800	1/16W 180	1	
R37009	ERJ3GEYJ102V	1/16W 1K	1	
R37010-15	ERJ3GEY0R00V	1/16W 0	6	
R37016	ERJ3GEYJ102V	1/16W 1K	1	
R37017	ERJ3GEYJ472V	1/16W 4.7K	1	
R37018	ERJ3GEYJ105V	1/16W 1M	1	
R37019,20	ERJ3GEY0R00V	1/16W 0	2	
R37021	ERJ3GEYJ102V	1/16W 1K	1	
R37022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37028	ERJ3GEYJ183V	1/16W 18K	1	D0GB183JA002
R37029,30	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R37032-38	ERJ3GEY0R00V	1/16W 0	7	
R37044	ERJ3GEYJ221V	1/16W 220	1	
R37046	ERJ3GEYJ102V	1/16W 1K	1	
R37047,48	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R37049	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R37050-52	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37053	ERJ3GEY0R00V	1/16W 0	1	
R37054	ERJ3GEYJ472V	1/16W 4.7K	1	
R37055	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R37057,58	ERJ3GEY0R00V	1/16W 0	2	
R37060	ERJ3GEYJ220V	1/16W 22	1	
R37061,62	ERJ3GEY0R00V	1/16W 0	2	
R37063	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R37064-70	ERJ3GEY0R00V	1/16W 0	7	
R37100	ERJ3GEYJ220V	1/16W 22	1	
R37103	ERJ3GEYJ220V	1/16W 22	1	
R37104-06	ERJ3GEYJ103V	1/16W 10K	3	D0GB103JA002
R37109,10	ERJ3GEYJ101	1/16W 100	2	D0GB101JA002
R50001	ERJ3GEYJ220V	1/16W 22	1	
R50002-04	ERJ3GEYJ470V	1/16W 47	3	
R50005,06	ERJ3GEYJ103V	1/16W 10K	2	D0GB103JA002
R50007-10	ERJ3GEYJ220V	1/16W 22	4	
R50012	ERJ3GEY0R00V	1/16W 0	1	
R50013	ERJ3RBD153	1/16W 15K	1	
R50014	ERJ3GEYJ470V	1/16W 47	1	
R50015	ERJ3RBD153	1/16W 15K	1	
R50017	ERJ3GEYJ390	1/16W 39	1	
R50018	ERJ3GEY0R00V	1/16W 0	1	
R50019	ERJ3GEYJ470V	1/16W 47	1	
R50021	ERJ3GEYJ220V	1/16W 22	1	
R50022	ERJ3GEYJ102V	1/16W 1K	1	
R50023	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50024	ERJ3GEYJ470V	1/16W 47	1	
R50025	ERJ3RED750V	1/16W 75	1	
R50026	ERJ3GEYJ102V	1/16W 1K	1	
R50027	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50030	ERJ3RED750V	1/16W 75	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R50031	ERJ3GEYJ102V	1/16W 1K	1	
R50032	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50033	ERJ3GEY0R00V	1/16W 0	1	
R50034	ERJ3RED360V	1/16W 36	1	
R50035	ERJ3GEYJ102V	1/16W 1K	1	
R50036	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50037	ERJ3GEY0R00V	1/16W 0	1	
R50038	ERJ3RED360V	1/16W 36	1	
R50039	ERJ3GEYJ102V	1/16W 1K	1	
R50040	ERJ3GEYJ330V	1/16W 33	1	D0GB330JA002
R50041	ERJ3GEY0R00V	1/16W 0	1	
R50042	ERJ3RED750V	1/16W 75	1	
R50043	ERJ3RBD273V	1/16W 27K	1	
R50044-47	ERJ3GEY0R00V	1/16W 0	4	
R50048	ERJ3RBD182V	1/16W 1.8K	1	
R50049	ERJ3RBD223	1/16W 22K	1	
R50050	ERJ3GEYJ220V	1/16W 22	1	
R50052	ERJ3GEY0R00V	1/16W 0	1	
R50053-55	ERJ3GEYJ470V	1/16W 47	3	
R50058	ERJ3GEYJ220V	1/16W 22	1	
R50060	ERJ3GEY0R00V	1/16W 0	1	
R50080	ERJ3GEYJ470V	1/16W 47	1	
R50082-84	ERJ3GEY0R00V	1/16W 0	3	
R50086	ERJ3GEY0R00V	1/16W 0	1	
RA3401-12	D1H82204A024	RESISTOR-RESISTOR	12	
RA3435,36	D1H82204A024	RESISTOR-RESISTOR	2	
RX3201-04	D1H82204A024	RESISTOR-RESISTOR	4	
RX3205-08	D1H83304A024	RESISTOR-RESISTOR	4	
RX3209,10	D1H82204A024	RESISTOR-RESISTOR	2	
RX3213,14	D1H82204A024	RESISTOR-RESISTOR	2	
RX3501-07	D1H82204A024	RESISTOR-RESISTOR	7	
RX3508-23	D1H83304A024	RESISTOR-RESISTOR	16	
RX3524	D1H84734A024	RESISTOR-RESISTOR	1	
RX3525	D1H81034A024	RESISTOR-RESISTOR	1	
RX3526-29	D1H83304A024	RESISTOR-RESISTOR	4	
RX3530-33	D1H82204A024	RESISTOR-RESISTOR	4	
RX3534-38	D1H81034A024	RESISTOR-RESISTOR	5	
RX3601,02	D1H82204A024	RESISTOR-RESISTOR	2	
RX3603	D1H83304A024	RESISTOR-RESISTOR	1	
RX3604	D1H8R0040009	RESISTOR-RESISTOR	1	
RX3605	D1H83304A024	RESISTOR-RESISTOR	1	
RX3606	D1H8R0040009	RESISTOR-RESISTOR	1	
RX3607,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX3609-14	D1H8R0040009	RESISTOR-RESISTOR	6	
RX3615-22	D1H84734A024	RESISTOR-RESISTOR	8	
RX3631,32	D1H8R0040009	RESISTOR-RESISTOR	2	
RX3639	D1H8R0040009	RESISTOR-RESISTOR	1	
RX3642-52	D1H8R0040009	RESISTOR-RESISTOR	11	
RX3653-64	D1H82204A024	RESISTOR-RESISTOR	12	
RX6001,02	D1H83334A024	RESISTOR-RESISTOR	2	
RX6003-05	D1H83324A024	RESISTOR-RESISTOR	3	
RX6006	D1H81034A024	RESISTOR-RESISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6007,08	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-12	D1H84704A024	RESISTOR-RESISTOR	4	
RX6013-19	D1H83304A024	RESISTOR-RESISTOR	7	
RX6020	D1H84704A024	RESISTOR-RESISTOR	1	
RX6021	D1H83304A024	RESISTOR-RESISTOR	1	
RX6022-24	D1H84704A024	RESISTOR-RESISTOR	3	
RX6025	D1H83304A024	RESISTOR-RESISTOR	1	
RX6026	D1H84704A024	RESISTOR-RESISTOR	1	
RX6027	D1H81034A024	RESISTOR-RESISTOR	1	
RX6028-33	D1H84704A024	RESISTOR-RESISTOR	6	
RX6034-48	D1H83304A024	RESISTOR-RESISTOR	15	
RX6701,02	D1H83324A024	RESISTOR-RESISTOR	2	
RX6703	D1H81034A024	RESISTOR-RESISTOR	1	
RX6704	D1H84724A024	RESISTOR-RESISTOR	1	
RX6705	D1H81034A024	RESISTOR-RESISTOR	1	
RX6706-13	D1H84704A024	RESISTOR-RESISTOR	8	
RX6714	D1H81034A024	RESISTOR-RESISTOR	1	
RX6715-19	D1H84704A024	RESISTOR-RESISTOR	5	
RX6720	D1H81034A024	RESISTOR-RESISTOR	1	
RX6721-28	D1H84704A024	RESISTOR-RESISTOR	8	
RX6729	D1H83334A024	RESISTOR-RESISTOR	1	
RX6730	D1H84704A024	RESISTOR-RESISTOR	1	
RX6731	D1H82224A024	RESISTOR-RESISTOR	1	
RX6732	D1H84704A024	RESISTOR-RESISTOR	1	
RX6733	D1H83334A024	RESISTOR-RESISTOR	1	
RX6735-38	D1H84704A024	RESISTOR-RESISTOR	4	
RX6739,40	D1H83334A024	RESISTOR-RESISTOR	2	
RX6741-44	D1H83324A024	RESISTOR-RESISTOR	4	
RX6745	D1H83334A024	RESISTOR-RESISTOR	1	
RX6746	D1H81034A024	RESISTOR-RESISTOR	1	
RX6747	D1H83324A024	RESISTOR-RESISTOR	1	
RX6748,49	D1H84724A024	RESISTOR-RESISTOR	2	
RX37001-05	D1H81034A024	RESISTOR-RESISTOR	5	
RX37006-14	D1H82204A024	RESISTOR-RESISTOR	9	
RX37015-18	D1H81034A024	RESISTOR-RESISTOR	4	
RX50001,02	D1H82204A024	RESISTOR-RESISTOR	2	
RX50009-16	D1H82204A024	RESISTOR-RESISTOR	8	
RX50017	D1H81034A024	RESISTOR-RESISTOR	1	
RX50018-25	D1H82204A024	RESISTOR-RESISTOR	8	
RX50026-29	D1H84704A024	RESISTOR-RESISTOR	4	
T37001	J0JBD0000043	TRANSFORMER	1	⚠
X3202	H0J540500006	CRYSTAL OSCILLATOR	1	
X6001	H2D330500001	CRYSTAL OSCILLATOR	1	
X37001	H0J245500020	CRYSTAL OSCILLATOR	1	H0J245500025
■	05	REP3598AB		
C7001	ECJ1VF1A105Z	10V 1U	1	
C7003	ECJ1VB1C104K	16V 0.1U	1	
C7004	ECJ1VB1H103K	50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IR7001	PNA4618M13VT	REMOTE SENSOR	1	
JK7001	K1U413A00006	JACK,L2	1	
LB7001-05	VLP0323A601T	COIL	5	J0JCC0000103
P7001	K1KA20B00132	CONNECTOR(20P)	1	
R7002	ERJ3GEYJ102V	1/16W 1K	1	
R7008-10	ERJ3GEYJ750	1/16W 75	3	
R7011	ERDS2FJ330	1/4W 33	1	
S7003	EVQ11G07K	SWITCH(POWER)	1	
W501,02	ERJ3GEY0R00V	1/16W 0	2	
■	06	REP3598BA		
D7801	B3ABA0000396	DIODE	1	
D7802	LNJ201LPQJA	LED	1	
D7804	LNJ201LPQJA	LED	1	
P7801	K1KA10B00196	CONNECTOR(10P)	1	
QR7801-05	UN2214	TRANSISTOR	5	UNR2214
R7801	ERJ3RBD122V	1/16W 1.2K	1	
R7802	ERJ3RBD152V	1/16W 1.5K	1	
R7803	ERJ3RBD222V	1/16W 2.2K	1	
R7804	ERJ3RBD332	1/16W 3.3K	1	
R7807	ERJ3RBD122V	1/16W 1.2K	1	
R7808	ERJ3RBD152V	1/16W 1.5K	1	
R7809	ERJ3RBD222V	1/16W 2.2K	1	
R7810	ERJ3RBD332	1/16W 3.3K	1	
R7811	ERJ3RBD562V	1/16W 5.6K	1	
R7814	ERJ3RBD122V	1/16W 1.2K	1	
R7815	ERJ3RBD152V	1/16W 1.5K	1	
R7821-25	ERJ3GEYJ221V	1/16W 220	5	
S7802	EVQ11G07K	SWITCH(REC)	1	
S7803	EVQ11G07K	SWITCH(CH-DOWN)	1	
S7804	EVQ11G07K	SWITCH(SKIP-R)	1	
S7805	EVQ11G07K	SWITCH(STOP)	1	
S7808	EVQ11G07K	SWITCH(CH-UP)	1	
S7809	EVQ11G07K	SWITCH(MODE)	1	
S7810	EVQ11G07K	SWITCH(ERASE)	1	
S7811	EVQ11G07K	SWITCH(TIME-WARP)	1	
S7817	K0H1BA000372	SWITCH(PLAY)	1	
S7812	EVQ11G07K	SWITCH(SKIP-F)	1	
S7818	K0H1BA000372	SWITCH(OPEN/CLOSE)	1	
S7815	EVQ11G07K	SWITCH(DVD)	1	
S7816	EVQ11G07K	SWITCH(HDD)	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	07	REP3542A		
P9801	K1KB40A00118	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
■	08	REP3604A		
P9801	K1KB40A00124	CONNECTOR(40P)	1	
P9802	K1MN40B00022	CONNECTOR(40P)	1	
■	09	REP3540CA		
C6801	ECJ1VB1C104K	16V 0.1U	1	
C6803-06	ECJ1VB1C104K	16V 0.1U	4	
C6808-10	ECJ1VB1C104K	16V 0.1U	3	
C6811,12	ECJ1VB1H103K	50V 0.01U	2	
C6813	EEE1CA470SP	16V 47U	1	
C6814	EEE0JA101SP	6.3V 100U	1	
C6815	ECJ1VB1H103K	50V 0.01U	1	
C6816	ECJ1VB1C104K	16V 0.1U	1	
FL6801-08	F1H0J1050018	FILTER	8	
IC6801	TC7W32FUTL	IC	1	C0JBAE000098
IC6802	C0JBAZ001166	IC	1	
IC6803	C0JBAZ001959	IC	1	
IC6804	C0JBAZ001988	IC	1	
IC6805	C0JBAZ001859	IC	1	
IC6806	C0JBAZ000608	IC	1	
IC6807	C0DBCHG00003	IC	1	
IC6809	C0EBJ0000153	IC	1	
IC6810	C0JBAZ001859	IC	1	
K6801	ERJ3GEY0R00V	1/16W 0	1	
LB6801	J0JHC0000032	COIL	1	
LB6802,03	J0JHC0000045	COIL	2	
P6801	K1KB70A00036	CONNECTOR(70P)	1	
P6802	K1NA68E00065	CONNECTOR(68P)	1	
P6803	K1NA09E00027	CONNECTOR(9P)	1	
Q6801	UN5213TX	TRANSISTOR	1	UNR521300L
QR6801	UN5211	TRANSISTOR	1	UNR5211
R6801,02	ERJ3GEYJ330V	1/16W 33	2	D0GB330JA002
R6803	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6804,05	ERJ3GEYJ473V	1/16W 47K	2	D0GB473JA002
R6806	ERJ3GEYJ104	1/16W 100K	1	
R6807	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6808	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R6809	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6810,11	ERJ3GEYJ220V	1/16W 22	2	
R6812,13	ERJ3GEYJ223V	1/16W 22K	2	D0GB223JA002
R6814	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6815-18	ERJ3GEYJ223V	1/16W 22K	4	D0GB223JA002
R6819	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6820-27	ERJ3GEYJ223V	1/16W 22K	8	D0GB223JA002
R6828	ERJ3GEYJ123V	1/16W 12K	1	
RX6801-12	D1H83304A024	RESISTOR-RESISTOR	12	
RX6813	D1H82204A024	RESISTOR-RESISTOR	1	
RX6814-17	D1H84734A024	RESISTOR-RESISTOR	4	
RX6818	D1H81234A024	RESISTOR-RESISTOR	1	
■	10	REP3540AB		
P37002	K1KA08B00213	CONNECTOR(8P)	1	
P37003	K2HZ104B0010	CONNECTOR(104P)	1	
■	12	JIG TOOLS		
	RFKZ0125	EXTENTION FFC(40PIN)	1	RAM-DIGITAL
	RFKZ0164	EXTENTION CABLE(30PIN~3)	1	MAIN-DIGITAL
	RFKZ0181	EXTENTION CABLE(70PIN)	1	DIGITAL-SD CARD
	RFKZ0165	EXTENTION CABLE(20PIN)	1	FRONT(L)-MAIN
	RFKZ0166	EXTENTION CABLE(10PIN)	1	FRONT(R)-POWER SUPPLY
	RFKZ0169	EXTENTION CABLE(4PIN)	1	HDD-POWER SUPPLY
	RFKZ0168	EXTENTION CABLE(3PIN)	1	FAN MOTOR
	RFKZ0170	EXTENTION CABLE(19PIN)	1	POWER SUPPLY-MAIN
	RFKZ0171	EXTENTION CABLE(15PIN)	1	POWER SUPPLY-MAIN
	RFKZ0143	SHORT PIN(3PIN)	1	UART

18. Schematic Diagram for printing with A4

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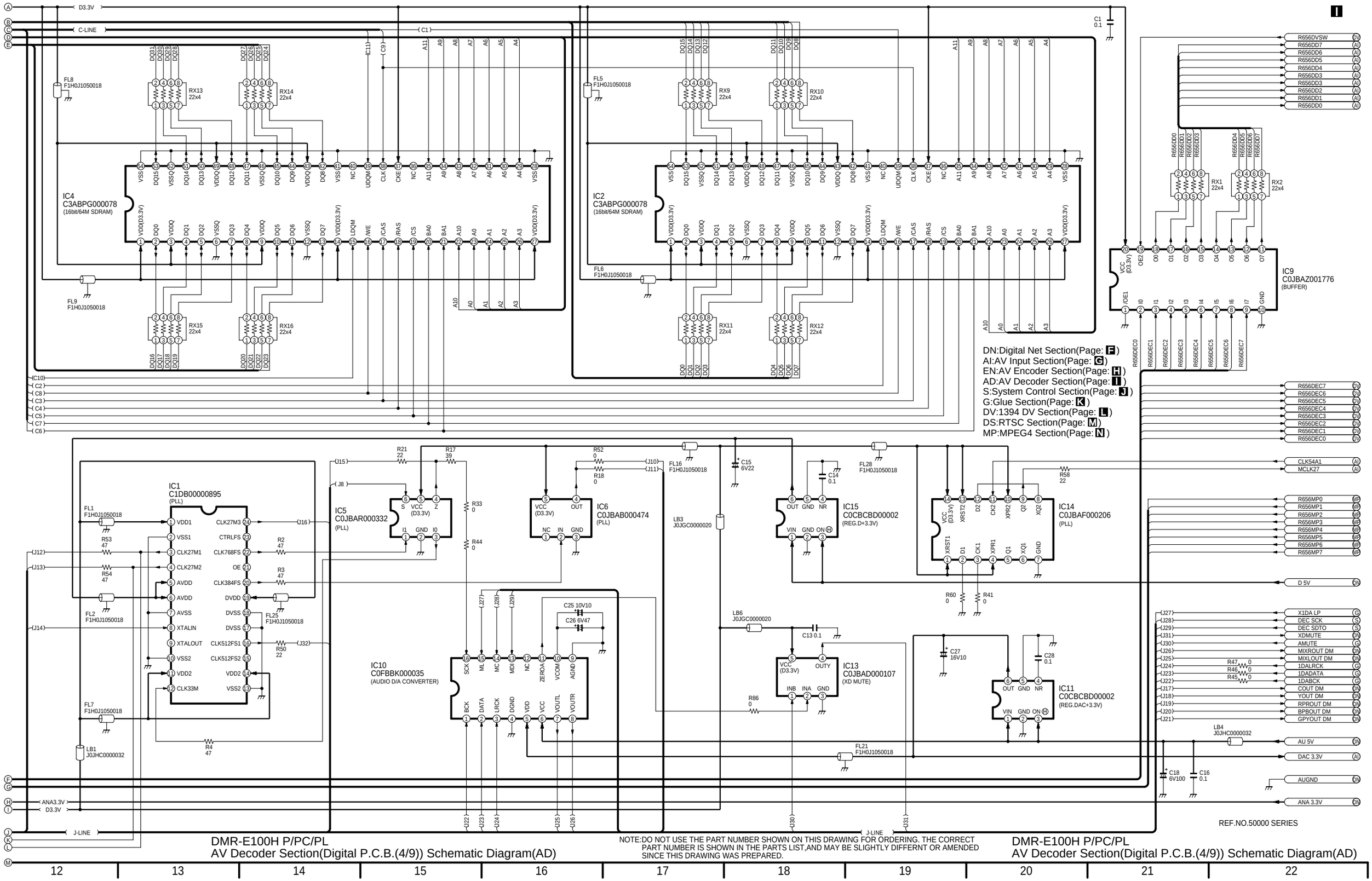
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

IC3
MN677551NA
(AVDEC)

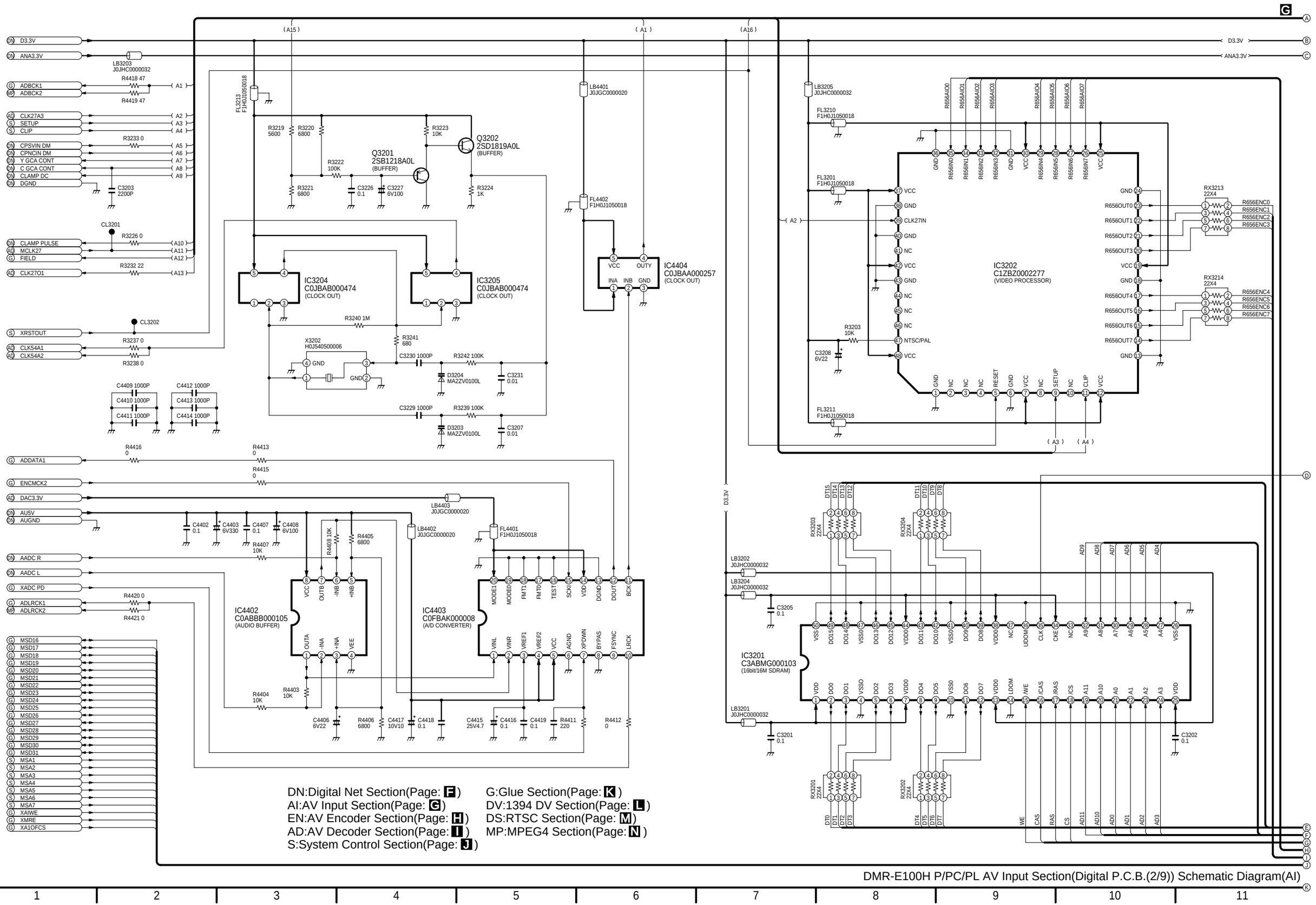
DMR-E100H P/PC/PL AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)



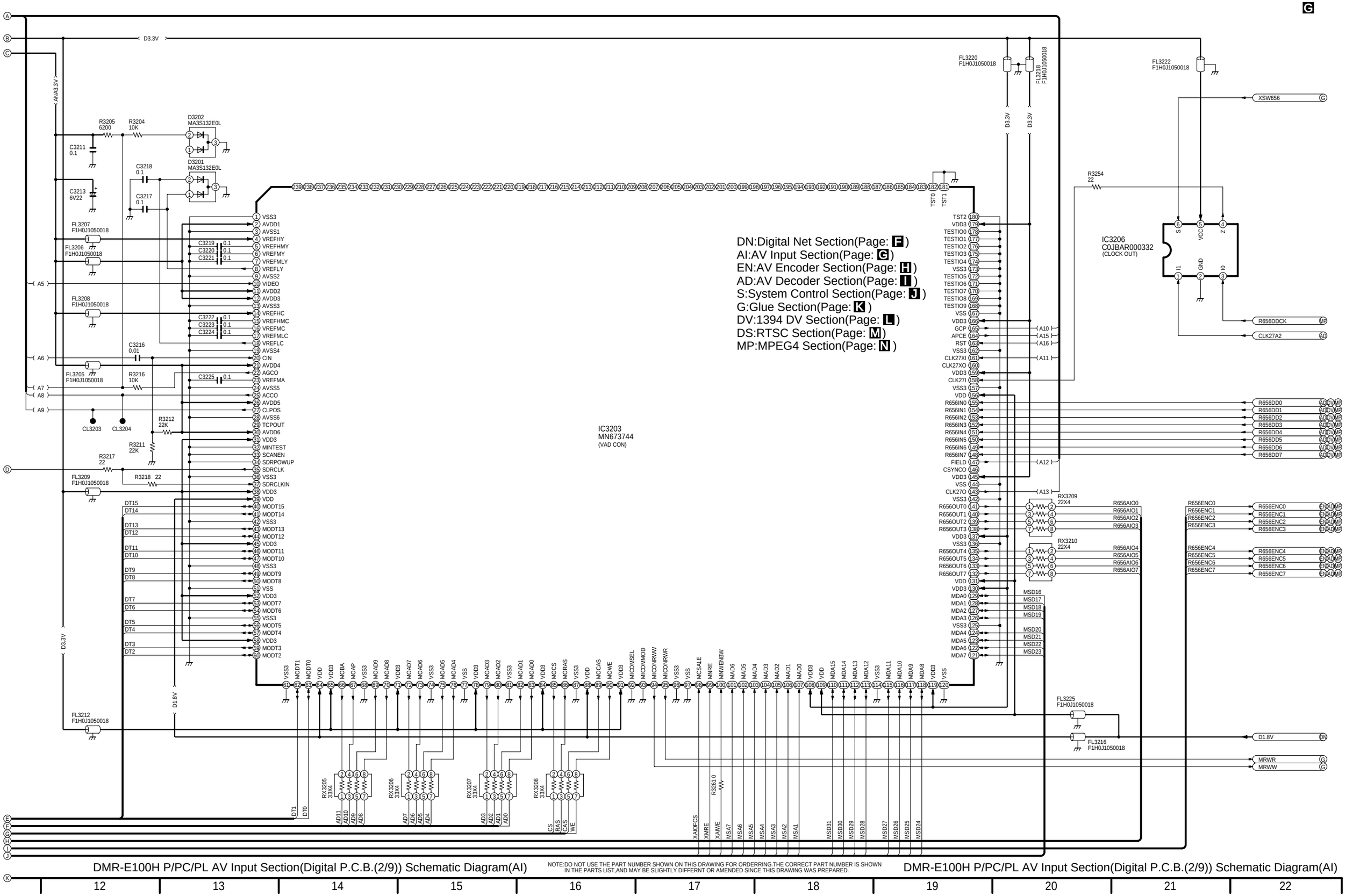
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

DMR-E100H P/PC/PL
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)



DMR-E100H P/PC/PL AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)



DMR-E100H P/PC/PL AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

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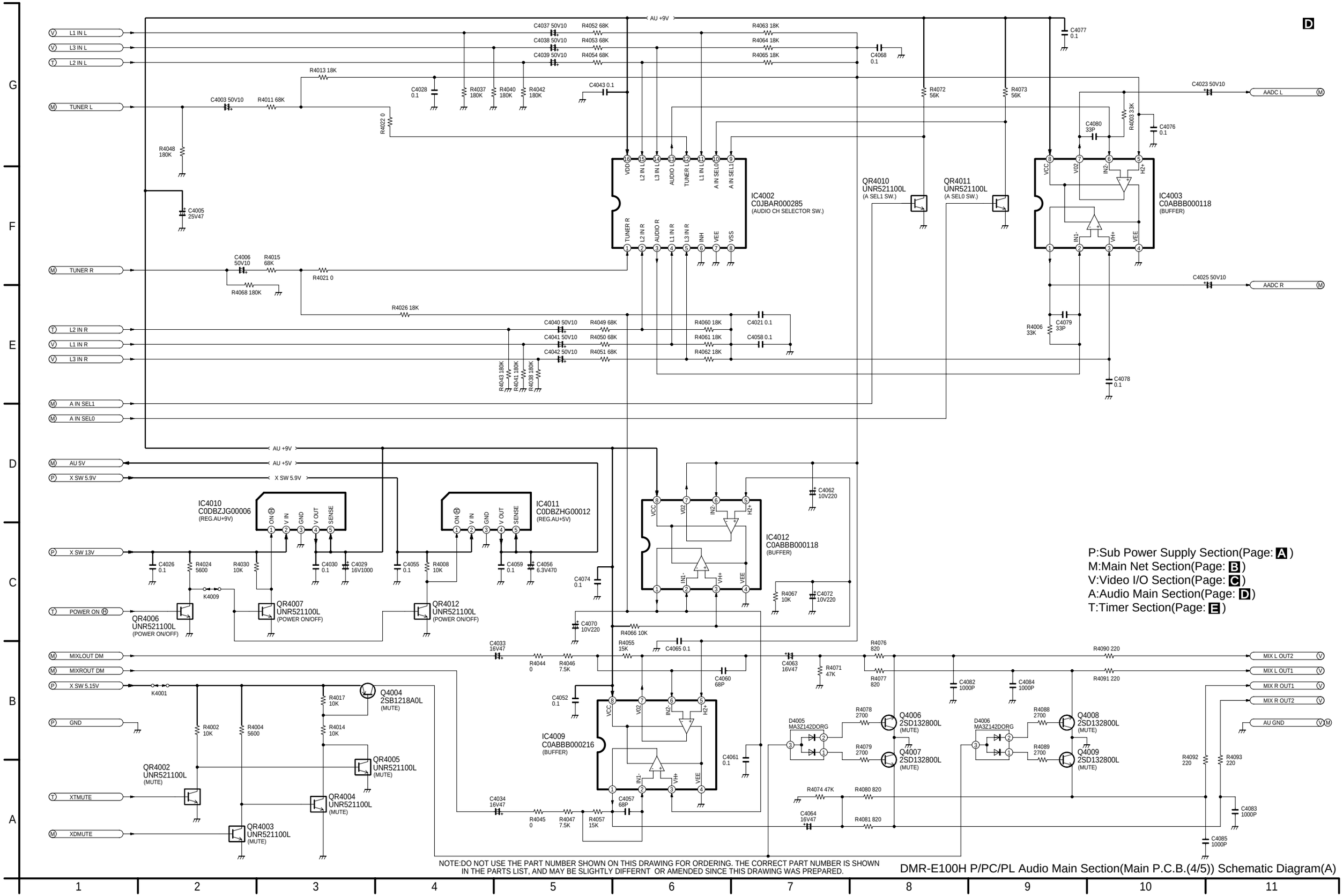
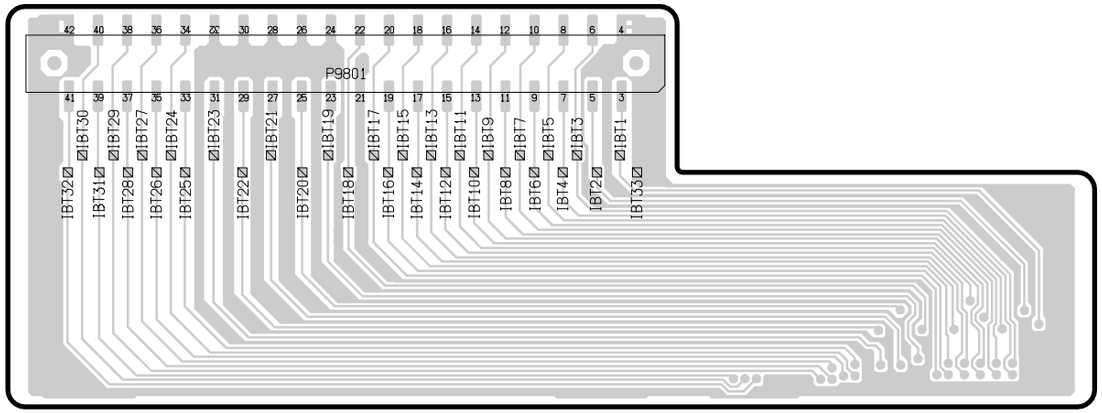
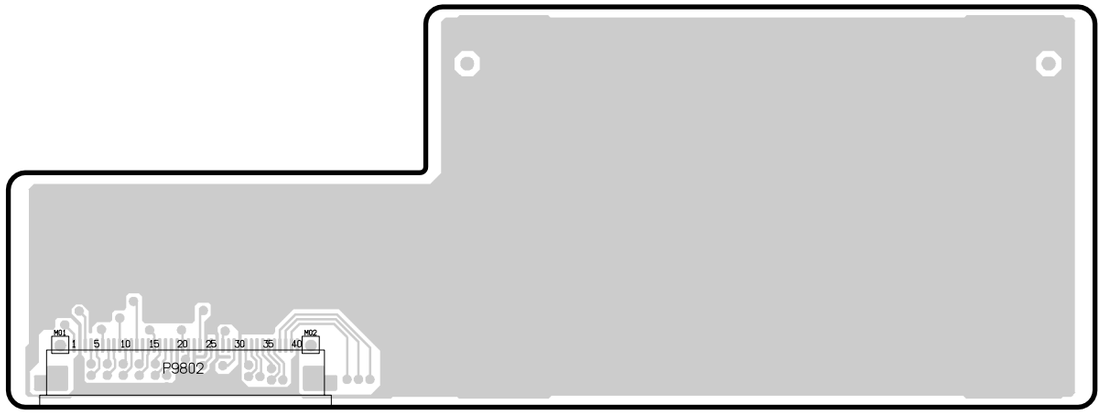
DMR-E100H P/PC/PL AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)


L1 IN L
L3 IN L
L2 IN L
TUNER L
TUNER R
L2 IN R
L1 IN R
L3 IN R
A IN SEL1
A IN SEL0
AU 5V
X SW 5.9V
X SW 13V
POWER ON
MIXLOUT DM
MIXROUT DM
X SW 5.15V
GND
XTMUTE
XDMUTE
AU +9V
AU +5V
X SW 5.9V
R4013 18K
C4003 50V10
R4011 68K
R4048 180K
C4005 25V47
R4022 0
C4028 0.1
R4037 180K
R4040 180K
R4042 180K
C4037 50V10
C4038 50V10
C4039 50V10
R4052 68K
R4053 68K
R4054 68K
C4043 0.1
R4063 18K
R4064 18K
R4065 18K
C4068 0.1
C4077 0.1
R4072 56K
R4073 56K
C4023 50V10
AADC L
C4080 33P
R4003 33K
C4076 0.1
IC4002
C0JBAR000285
(AUDIO CH SELECTOR SW.)
VDD
L2 IN L
L3 IN L
AUDIO L
TUNER L
L1 IN L
A IN SEL0
A IN SEL1
TUNER R
L2 IN R
AUDIO R
L1 IN R
L3 IN R
NH
VEE
VSS
QR4010
UNR521100L
(A SEL1 SW.)
QR4011
UNR521100L
(A SEL0 SW.)
IC4003
C0ABBB000118
(BUFFER)
VCC
VO2
IN2-
H2+
IN1-
VH+
VEE
C4006 50V10
R4015 68K
R4068 180K
R4021 0
C4025 50V10
AADC R
C4079 33P
R4006 33K
C4078 0.1
R4026 18K
C4040 50V10
C4041 50V10
C4042 50V10
R4049 68K
R4050 68K
R4051 68K
R4060 18K
R4061 18K
R4062 18K
C4021 0.1
C4058 0.1
R4043 180K
R4041 180K
R4038 180K
A IN SEL1
A IN SEL0
IC4010
C0DBZJG00006
(REG.AU+9V)
ON
V IN
GND
V OUT
SENSE
IC4011
C0DBZHG00012
(REG.AU+5V)
C4026 0.1
R4024 5600
R4030 10K
C4030 0.1
C4029 16V1000
C4055 0.1
R4008 10K
C4059 0.1
C4056 6.3V470
K4009
QR4007
UNR521100L
(POWER ON/OFF)
QR4012
UNR521100L
(POWER ON/OFF)
QR4006
UNR521100L
(POWER ON/OFF)
C4074 0.1
IC4012
C0ABBB000118
(BUFFER)
C4062 10V220
R4067 10K
C4072 10V220
C4070 10V220
R4066 10K
C4033 16V47
R4044 0
R4046 7.5K
R4055 15K
C4065 0.1
C4060 68P
C4052 0.1
IC4009
C0ABBB000216
(BUFFER)
C4061 0.1
C4034 16V47
R4045 0
R4047 7.5K
R4057 15K
C4057 68P
C4063 16V47
R4071 47K
R4076 820
R4077 820
R4090 220
R4091 220
C4082 1000P
C4084 1000P
K4001
R4017 10K
R4014 10K
Q4004
2SB1218A0L
(MUTE)
R4002 10K
R4004 5600
QR4002
UNR521100L
(MUTE)
QR4005
UNR521100L
(MUTE)
QR4004
UNR521100L
(MUTE)
QR4003
UNR521100L
(MUTE)
D4005
MA3Z142DORG
R4078 2700
R4079 2700
Q4006
2SD132800L
(MUTE)
Q4007
2SD132800L
(MUTE)
D4006
MA3Z142DORG
R4088 2700
R4089 2700
Q4008
2SD132800L
(MUTE)
Q4009
2SD132800L
(MUTE)
R4074 47K
R4080 820
C4064 16V47
R4081 820
R4092 220
R4093 220
C4083 1000P
C4085 1000P
MIX L OUT2
MIX L OUT1
MIX R OUT1
MIX R OUT2
AU GND
D
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E100H P/PC/PL Audio Main Section(Main P.C.B.(4/5)) Schematic Diagram(A)

DRIVE ATAPI P.C.B.

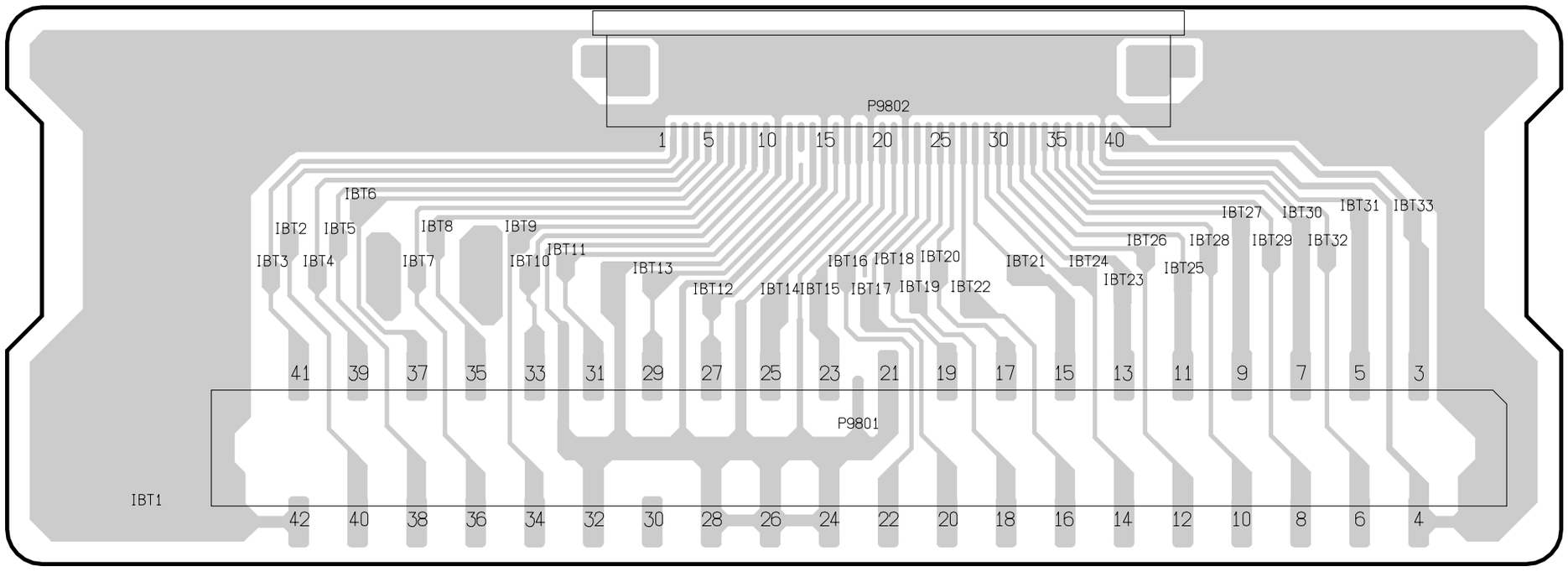


(COMPONENT SIDE)



(FOIL SIDE)

ATAPI P.C.B.



DMR-E100H P/PC/PL
DRIVE ATAPI P.C.B.
(REP3604A)
ATAPI P.C.B. (REP3542A)

TO HDD DRIVE
P9801

———	1
———	2
RESET-	3
GND	4
DD7	5
DD8	6
DD6	7
DD9	8
DD5	9
DD10	10
DD4	11
DD11	12
DD3	13
DD12	14
DD2	15
DD13	16
DD1	17
DD14	18
DD0	19
DD15	20
GND	21
———	22
DMARQ	23
GND	24
DIOW-	25
GND	26
DIOR-	27
GND	28
IORDY	29
GND	30
DMACK-	31
GND	32
INTRQ	33
———	34
DA1	35
———	36
DA0	37
DA2	38
DA0-	39
———	40
DASP	41
GND	42
———	43
———	44

TO FP3502
DIGITAL P.C.B.
(RTSC SECTION)
P9802

1	RESET-
2	GND
3	DD7
4	DD8
5	DD6
6	DD9
7	DD5
8	DD10
9	DD4
10	DD11
11	DD3
12	DD12
13	DD2
14	DD13
15	DD1
16	DD14
17	DD0
18	DD15
19	GND
20	———
21	DMARQ
22	GND
23	DIOW-
24	GND
25	DIOR-
26	GND
27	IORDY
28	———
29	DMACK-
30	GND
31	INTRQ
32	———
33	DA1
34	———
35	DA0
36	DA2
37	CS0-
38	———
39	DASP
40	GND

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
ATAPI Schematic Diagram

D C B A

1 2 3 4 5 6

IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3203 / VAD CON		SIGNAL NAME	IC3202 / V-PROCESSOR	
	Port Name	Pin No		Pin No	Port Name
1	R656OUT0	141	R656AIO0	35	R656IN0
	R656OUT1	140	R656AIO1	34	R656IN1
	R656OUT2	139	R656AIO2	33	R656IN2
	R656OUT3	138	R656AIO3	32	R656IN3
	R656OUT4	135	R656AIO4	29	R656IN4
	R656OUT5	134	R656AIO5	28	R656IN5
	R656OUT6	133	R656AIO6	27	R656IN6
	R656OUT7	132	R656AIO7	26	R656IN7

TC	IC3402 / AV ENC		SIGNAL NAME	IC3503 / RTSC	
	Port Name	Pin No		Pin No	Port Name
2	CDO0	63	ED0	28	B2DAT0
	CDO1	64	ED1	29	B2DAT1
	CDO2	65	ED2	31	B2DAT2
	CDO3	67	ED3	32	B2DAT3
	CDO4	68	ED4	34	B2DAT4
	CDO5	69	ED5	35	B2DAT5
	CDO6	72	ED6	36	B2DAT6
	CDO7	73	ED7	38	B2DAT7

TC	IC3503 / RTSC		SIGNAL NAME	FP3501 (TO DVD RAM), FP3502 (TO HDD)	
	Port Name	Pin No		Pin No	Port Name
3	IHDD0	211	RAMD0	24	DD0
	IHDD1	215	RAMD1	26	DD1
	IHDD2	219	RAMD2	28	DD2
	IHDD3	221	RAMD3	30	DD3
	IHDD4	225	RAMD4	32	DD4
	IHDD5	230	RAMD5	34	DD5
	IHDD6	232	RAMD6	36	DD6
	IHDD7	235	RAMD7	38	DD7
	IHDD8	234	RAMD8	37	DD8
	IHDD9	231	RAMD9	35	DD9
	IHDD10	226	RAMD10	33	DD10
	IHDD11	224	RAMD11	31	DD11
	IHDD12	220	RAMD12	29	DD12
	IHDD13	218	RAMD13	27	DD13
	IHDD14	214	RAMD14	25	DD14
	IHDD15	210	RAMD15	23	DD15

TC	IC3203/VAD CON		SIGNAL NAME	IC3201/SDRAM	
	Port Name	Pin No		Pin No	Port Name
4	M0DT0	63	DT0	2	DO0
	M0DT1	62	DT1	3	DO1
	M0DT2	60	DT2	5	DO2
	M0DT3	59	DT3	6	DO3
	M0DT4	57	DT4	8	DO4
	M0DT5	56	DT5	9	DO5
	M0DT6	54	DT6	11	DO6
	M0DT7	53	DT7	12	DO7
	M0DT8	50	DT8	39	DO8
	M0DT9	49	DT9	40	DO9
	M0DT10	47	DT10	42	DO10
	M0DT11	46	DT11	43	DO11
	M0DT12	44	DT12	45	DO12
	M0DT13	43	DT13	46	DO13
	M0DT14	41	DT14	48	DO14
	M0DT15	40	DT15	49	DO15
	M0AD0	83	AD0	21	A0
	M0AD1	82	AD1	22	A1
	M0AD2	80	AD2	23	A2
	M0AD3	79	AD3	24	A3
	M0AD4	76	AD4	27	A4
	M0AD5	75	AD5	28	A5
	M0AD6	73	AD6	29	A6
	M0AD7	72	AD7	30	A7
	M0AD8	70	AD8	31	A8
	M0AD9	69	AD9	32	A9
	M0AP	67	AD10	20	A10
	M0BA	66	AD11	19	A11

TC	IC3402/AV ENC		SIGNAL NAME	IC3401/SDRAM(32bit/64M)	
	Port Name	Pin No		Pin No	Port Name
5	MDQ0	124	MDQA0	2	DQ0
	MDQ1	125	MDQA1	4	DQ1
	MDQ2	127	MDQA2	5	DQ2
	MDQ3	128	MDQA3	7	DQ3
	MDQ4	130	MDQA4	8	DQ4
	MDQ5	131	MDQA5	10	DQ5
	MDQ6	133	MDQA6	11	DQ6
	MDQ7	134	MDQA7	13	DQ7
	MDQ8	137	MDQA8	74	DQ8
	MDQ9	138	MDQA9	76	DQ9
	MDQ10	140	MDQA10	77	DQ10
	MDQ11	141	MDQA11	79	DQ11
	MDQ12	143	MDQA12	80	DQ12
	MDQ13	144	MDQA13	82	DQ13
	MDQ14	146	MDQA14	83	DQ14
	MDQ15	147	MDQA15	85	DQ15
	MDQ16	150	MDQA16	31	DQ16
	MDQ17	151	MDQA17	33	DQ17
	MDQ18	153	MDQA18	34	DQ18
	MDQ19	154	MDQA19	36	DQ19
	MDQ20	158	MDQA20	37	DQ20
	MDQ21	159	MDQA21	39	DQ21
	MDQ22	161	MDQA22	40	DQ22
	MDQ23	162	MDQA23	42	DQ23
	MDQ24	165	MDQA24	45	DQ24
	MDQ25	166	MDQA25	47	DQ25
	MDQ26	168	MDQA26	48	DQ26
	MDQ27	169	MDQA27	50	DQ27
	MDQ28	186	MDQA28	51	DQ28
	MDQ29	187	MDQA29	53	DQ29
	MDQ30	190	MDQA30	54	DQ30
	MDQ31	191	MDQA31	56	DQ31
	MA0	193	MAA0	25	A0
	MA1	194	MAA1	26	A1
	MA2	196	MAA2	27	A2
	MA3	197	MAA3	60	A3
	MA4	200	MAA4	61	A4
	MA5	201	MAA5	62	A5
	MA6	203	MAA6	63	A6
	MA7	204	MAA7	64	A7
	MA8	206	MAA8	65	A8
	MA9	207	MAA9	66	A9
	MA10	2	MAA10	24	A10

TC	IC3503 / RTSC		SIGNAL NAME	IC3501,IC3502/SDRAM	
	Port Name	Pin No		Pin No	Port Name
6	MDQ0	248	MADQB0	2	DQ0
	MDQ1	250	MADQB1	4	DQ1
	MDQ2	252	MADQB2	5	DQ2
	MDQ3	254	MADQB3	7	DQ3
	MDQ4	258	MADQB4	8	DQ4
	MDQ5	261	MADQB5	10	DQ5
	MDQ6	263	MADQB6	11	DQ6
	MDQ7	266	MADQB7	13	DQ7
	MDQ8	267	MADQB8	42	DQ8
	MDQ9	264	MADQB9	44	DQ9
	MDQ10	262	MADQB10	45	DQ10
	MDQ11	259	MADQB11	47	DQ11
	MDQ12	255	MADQB12	48	DQ12
	MDQ13	253	MADQB13	50	DQ13
	MDQ14	251	MADQB14	51	DQ14
	MDQ15	249	MADQB15	53	DQ15

IC Pin Terminal Chart (TC 7, TC 8, TC 9, TC 15, TC 16, TC 21, TC 22, TC 23)

TC	IC3202/V-PROCESSOR		SIGNAL NAME	IC50003/AV DEC	
	Port Name	Pin No		Pin No	Port Name
7	R656OUT0	23	R656MP0	138	VDIN0
	R656OUT1	22	R656MP1	137	VDIN1
	R656OUT2	21	R656MP2	136	VDIN2
	R656OUT3	20	R656MP3	134	VDIN3
	R656OUT4	17	R656MP4	133	VDIN4
	R656OUT5	16	R656MP5	132	VDIN5
	R656OUT6	15	R656MP6	130	VDIN6
	R656OUT7	14	R656MP7	129	VDIN7

TC	IC50003/AV DEC		SIGNAL NAME	IC50002/SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQ0	17	DQ0	2	DQ0
	MDQ1	14	DQ1	4	DQ1
	MDQ2	11	DQ2	5	DQ2
	MDQ3	8	DQ3	7	DQ3
	MDQ4	6	DQ4	8	DQ4
	MDQ5	3	DQ5	10	DQ5
	MDQ6	207	DQ6	11	DQ6
	MDQ7	205	DQ7	13	DQ7
	MDQ8	206	DQ8	42	DQ8
	MDQ9	2	DQ9	44	DQ9
	MDQ10	4	DQ10	45	DQ10
	MDQ11	7	DQ11	47	DQ11
	MDQ12	9	DQ12	48	DQ12
	MDQ13	13	DQ13	50	DQ13
	MDQ14	16	DQ14	51	DQ14
	MDQ15	18	DQ15	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC50003/AV DEC		SIGNAL NAME	IC50004/SDRAM	
	Port Name	Pin No		Pin No	Port Name
9	MDQ16	171	DQ16	2	DQ0
	MDQ17	168	DQ17	4	DQ1
	MDQ18	166	DQ18	5	DQ2
	MDQ19	163	DQ19	7	DQ3
	MDQ20	160	DQ20	8	DQ4
	MDQ21	158	DQ21	10	DQ5
	MDQ22	154	DQ22	11	DQ6
	MDQ23	151	DQ23	13	DQ7
	MDQ24	150	DQ24	42	DQ8
	MDQ25	153	DQ25	44	DQ9
	MDQ26	155	DQ26	45	DQ10
	MDQ27	159	DQ27	47	DQ11
	MDQ28	162	DQ28	48	DQ12
	MDQ29	164	DQ29	50	DQ13
	MDQ30	167	DQ30	51	DQ14
	MDQ31	169	DQ31	53	DQ15
	MA0	183	A0	23	A0
	MA1	181	A1	24	A1
	MA2	178	A2	25	A2
	MA3	176	A3	26	A3
	MA4	177	A4	29	A4
	MA5	179	A5	30	A5
	MA6	182	A6	31	A6
	MA7	188	A7	32	A7
	MA8	191	A8	33	A8
	MA9	196	A9	34	A9
	MA10	189	A10	22	A10
	MA11	192	A11	35	A11

TC	IC6004 / MAIN CPU		SIGNAL NAME	IC6002,IC6003 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
15	MD0	35	MD0	2	DQ0
	MD1	36	MD1	4	DQ1
	MD2	37	MD2	5	DQ2
	MD3	38	MD3	7	DQ3
	MD4	39	MD4	8	DQ4
	MD5	40	MD5	10	DQ5
	MD6	41	MD6	11	DQ6
	MD7	42	MD7	13	DQ7
	MD8	46	MD8	42	DQ8
	MD9	47	MD9	44	DQ9
	MD10	48	MD10	45	DQ10
	MD11	49	MD11	47	DQ11
	MD12	50	MD12	48	DQ12
	MD13	51	MD13	50	DQ13
	MD14	52	MD14	51	DQ14
	MD15	53	MD15	53	DQ15
	MA0	5	MA0	23	A0
	MA1	6	MA1	24	A1
	MA2	7	MA2	25	A2
	MA3	8	MA3	26	A3
	MA4	9	MA4	29	A4
	MA5	10	MA5	30	A5
	MA6	11	MA6	31	A6
	MA7	12	MA7	32	A7
	MA8	13	MA8	33	A8
	MA9	14	MA9	34	A9
	MA10	15	MA10	22	A10
	MA11	16	MA11	35	A11
	MA12	17	MA12	36	NC
	MA13	18	MA13	21	A12
	MA14	19	MA14	20	A13

TC	IC3503 / RTSC		SIGNAL NAME	IC50003 / AV DEC	
	Port Name	Pin No		Pin No	Port Name
16	B3DATA0	51	STD0	88	STD0
	B3DATA1	49	STD1	87	STD1
	B3DATA2	47	STD2	86	STD2
	B3DATA3	46	STD3	85	STD3
	B3DATA4	45	STD4	84	STD4
	B3DATA5	44	STD5	83	STD5
	B3DATA6	43	STD6	82	STD6
	B3DATA7	42	STD7	81	STD7

TC	IC6701 / GLUE		SIGNAL NAME	IC6704 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
21	ECCD0	67	DE0	29	D0
	ECCD1	70	DE1	30	D1
	ECCD2	69	DE2	31	D2
	ECCD3	68	DE3	32	D3
	ECCD4	71	DE4	41	D4
	ECCD5	74	DE5	42	D5
	ECCD6	73	DE6	43	D6
	ECCD7	72	DE7	44	D7

TC	IC37002 / 8bit CONVERTER		SIGNAL NAME	IC37001 / DV CODEC	
	Port Name	Pin No		Pin No	Port Name
22	D0	6	D0	49	D0
	D1	7	D1	48	D1
	D2	8	D2	45	D2
	D3	9	D3	44	D3
	D4	10	D4	42	D4
	D5	11	D5	41	D5
	D6	12	D6	39	D6
	D7	13	D7	38	D7

TC	IC3202/V-PROCESSOR		SIGNAL NAME	IC3402/AV ENC	
	Port Name	Pin No		Pin No	Port Name
23	R656OUT0	23	R656ENC0	17	VIN0
	R656OUT1	22	R656ENC1	18	VIN1
	R656OUT2	21	R656ENC2	20	VIN2
	R656OUT3	20	R656ENC3	21	VIN3
	R656OUT4	17	R656ENC4	23	VIN4
	R656OUT5	16	R656ENC5	24	VIN5
	R656OUT6	15	R656ENC6	25	VIN6
	R656OUT7	14	R656ENC7	26	VIN7

IC Pin Terminal Chart (TC 28 - TC 32,TC34,TC37)

TC	IC50003 / AV DEC		SIGNAL NAME	IC37001 / DV DEC	
	Port Name	Pin No		Pin No	Port Name
28	VDOUT0	140	R656DEC0	157	R656IN0
	VDOUT1	141	R656DEC1	156	R656IN1
	VDOUT2	142	R656DEC2	155	R656IN2
	VDOUT3	143	R656DEC3	154	R656IN3
	VDOUT4	145	R656DEC4	152	R656IN4
	VDOUT5	146	R656DEC5	151	R656IN5
	VDOUT6	147	R656DEC6	150	R656IN6
	VDOUT7	149	R656DEC7	149	R656IN7

TC	IC50003 / AV DEC		SIGNAL NAME	IC50009 / BUFFER	
	Port Name	Pin No		Pin No	Port Name
29	VDOUT0	140	R656DEC0	2	I0
	VDOUT1	141	R656DEC1	3	I1
	VDOUT2	142	R656DEC2	4	I2
	VDOUT3	143	R656DEC3	5	I3
	VDOUT4	145	R656DEC4	6	I4
	VDOUT5	146	R656DEC5	7	I5
	VDOUT6	147	R656DEC6	8	I6
	VDOUT7	149	R656DEC7	9	I7

TC	IC37001 / DV CODEC		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
30	REC656OUT0	145	R656DD0	155	R656IN0
	REC656OUT1	144	R656DD1	154	R656IN1
	REC656OUT2	143	R656DD2	153	R656IN2
	REC656OUT3	142	R656DD3	152	R656IN3
	REC656OUT4	140	R656DD4	151	R656IN4
	REC656OUT5	139	R656DD5	150	R656IN5
	REC656OUT6	138	R656DD6	149	R656IN6
	REC656OUT7	137	R656DD7	148	R656IN7

TC	IC50009 / BUFFER		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
31	O0	18	R656DD0	155	R656IN0
	O1	17	R656DD1	154	R656IN1
	O2	16	R656DD2	153	R656IN2
	O3	15	R656DD3	152	R656IN3
	O4	14	R656DD4	151	R656IN4
	O5	13	R656DD5	150	R656IN5
	O6	12	R656DD6	149	R656IN6
	O7	11	R656DD7	148	R656IN7

TC	IC3202 / V-PRO		SIGNAL NAME	IC3608 / MPEG4 CODEC	
	Port Name	Pin No		Pin No	Port Name
32	R656OUT0	23	R656ENC0	109	C DATA4
	R656OUT1	22	R656ENC1	110	C DATA5
	R656OUT2	21	R656ENC2	111	C DATA6
	R656OUT3	20	R656ENC3	112	C DATA7
	R656OUT4	17	R656ENC4	113	C DATA8
	R656OUT5	16	R656ENC5	114	C DATA9
	R656OUT6	15	R656ENC6	115	C DATA10
	R656OUT7	14	R656ENC7	116	C DATA11

TC	IC3608 / MPEG4 CODE		SIGNAL NAME	IC3607 / SDRAM(32bit/16M)	
	Port Name	Pin No		Pin No	Port Name
34	SDR DQ0	202	MPDT0	2	DQ0
	SDR DQ1	201	MPDT1	4	DQ1
	SDR DQ2	200	MPDT2	5	DQ2
	SDR DQ3	198	MPDT3	7	DQ3
	SDR DQ4	197	MPDT4	8	DQ4
	SDR DQ5	196	MPDT5	10	DQ5
	SDR DQ6	195	MPDT6	11	DQ6
	SDR DQ7	194	MPDT7	13	DQ7
	SDR DQ8	193	MPDT8	74	DQ8
	SDR DQ9	192	MPDT9	76	DQ9
	SDR DQ10	191	MPDT10	77	DQ10
	SDR DQ11	188	MPDT11	79	DQ11
	SDR DQ12	187	MPDT12	80	DQ12
	SDR DQ13	186	MPDT13	82	DQ13
	SDR DQ14	185	MPDT14	83	DQ14
	SDR DQ15	184	MPDT15	85	DQ15
	SDR DQ16	183	MPDT16	31	DQ16
	SDR DQ17	182	MPDT17	33	DQ17
	SDR DQ18	181	MPDT18	34	DQ18
	SDR DQ19	180	MPDT19	36	DQ19
	SDR DQ20	179	MPDT20	37	DQ20
	SDR DQ21	178	MPDT21	39	DQ21
	SDR DQ22	177	MPDT22	40	DQ22
	SDR DQ23	176	MPDT23	42	DQ23
	SDR DQ24	175	MPDT24	45	DQ24
	SDR DQ25	172	MPDT25	47	DQ25
	SDR DQ26	171	MPDT26	48	DQ26
	SDR DQ27	170	MPDT27	50	DQ27
	SDR DQ28	169	MPDT28	51	DQ28
	SDR DQ29	168	MPDT29	53	DQ29
	SDR DQ30	167	MPDT30	54	DQ30
	SDR DQ31	166	MPDT31	56	DQ31
	SDR A0	164	MPAD0	25	A0
	SDR A1	163	MPAD1	26	A1
	SDR A2	162	MPAD2	27	A2
	SDR A3	161	MPAD3	60	A3
	SDR A4	160	MPAD4	61	A4
	SDR A5	158	MPAD5	62	A5
	SDR A6	157	MPAD6	63	A6
	SDR A7	156	MPAD7	64	A7
	SDR A8	155	MPAD8	65	A8
	SDR A9	154	MPAD9	66	A9
	SDR A10	153	MPAD10	24	A10
	SDR A13	150	MPBA1	22	BA0
	SDR A14	149	MPBA0	23	BA1

TC	IC3603 / BUFFER		SIGNAL NAME	IC3203 / VAD CON	
	Port Name	Pin No		Pin No	Port Name
37	O7	11	R656DD7	148	R656IN7
	O6	12	R656DD6	149	R656IN6
	O5	13	R656DD5	150	R656IN5
	O4	14	R656DD4	151	R656IN4
	O3	15	R656DD3	152	R656IN3
	O2	16	R656DD2	153	R656IN2
	O1	17	R656DD1	154	R656IN1
	O0	18	R656DD0	155	R656IN0

SD16 - SD31 DATA BUS LINE (TC20-2, TC17-2, TC19-2,TC35-2)

TC	20-2		17-2		19-2		35-2	
SIGNAL NAME	IC6004 / MAIN CPU		IC6701 / GLUE		IC6006 / LOADER		IC3608 / MPEG4	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	135	SD16	201	LDTI 0	15	D0	261	ARMD0
SD17	136	SD17	200	LDTI 1	17	D1	260	ARMD1
SD18	137	SD18	199	LDTI 2	19	D2	259	ARMD2
SD19	138	SD19	202	LDTI 3	21	D3	258	ARMD
SD20	139	SD20	197	LDTI 4	24	D4	257	ARMD4
SD21	140	SD21	196	LDTI 5	26	D5	256	ARMD5
SD22	141	SD22	198	LDTI 6	28	D6	253	ARMD6
SD23	142	SD23	195	LDTI 7	30	D7	252	ARMD7
SD24	144	SD24	194	LDTI 8	16	D8	251	ARMD8
SD25	145	SD25	192	LDTI 9	18	D9	250	ARMD9
SD26	146	SD26	191	LDTI 10	20	D10	249	ARMD10
SD27	147	SD27	189	LDTI 11	22	D11	248	ARMD11
SD28	148	SD28	190	LDTI 12	25	D12	247	ARMD12
SD29	149	SD29	188	LDTI 13	27	D13	246	ARMD13
SD30	150	SD30	187	LDTI 14	29	D14	245	ARMD14
SD31	151	SD31	185	LDTI 15	31	D15	244	ARMD15

SA0 - SA25 ADDRESS BUS LINE (TC20-1, TC12-3, TC17-1, TC18, TC19-1, TC25, TC27,TC35-1)

TC	20-1		12-3		17-1		18		19-1		25		27		35-1	
SIGNAL NAME	**IC6004/MAIN CPU**		**IC3503 / RTSC**		**IC6701/GLUE**		**IC6007 / BUFFER**		**IC6006 / LOADER**		**IC50003 / AVDEC**		**IC37001 / DV CODEC**		**IC3608 / MPEG4**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	186	SA0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SA1	187	SA1	-	-	-	-	26	4A4	11	A0	-	-	-	-	-	-
SA2	188	SA2	-	-	-	-	27	4A3	10	A1	-	-	-	-	-	-
SA3	189	SA3	-	-	-	-	29	4A2	9	A2	-	-	-	-	-	-
SA4	190	SA4	-	-	-	-	30	4A1	8	A3	-	-	-	-	-	-
SA5	191	SA5	-	-	-	-	32	3A4	7	A4	-	-	-	-	-	-
SA6	192	SA6	-	-	-	-	33	3A3	6	A5	-	-	-	-	-	-
SA7	193	SA7	-	-	-	-	35	3A2	5	A6	-	-	-	-	-	-
SA8	194	SA8	70	HADR8	-	-	-	-	4	A7	41	HA8	109	AD7	279	ARMA7
SA9	195	SA9	71	HADR9	-	-	-	-	42	A8	42	HA9	107	AD8	278	ARMA8
SA10	196	SA10	72	HADR10	-	-	-	-	41	A9	43	HA10	106	AD9	277	ARMA9
SA11	197	SA11	73	HADR11	-	-	-	-	40	A10	45	HA11	105	AD10	274	ARMA10
SA12	198	SA12	76	HADR12	-	-	-	-	39	A11	46	HA12	104	AD11	273	ARMA11
SA13	199	SA13	77	HADR13	-	-	-	-	38	A12	47	HA13	103	AD12	272	ARMA12
SA14	200	SA14	78	HADR14	-	-	-	-	37	A13	49	HA14	-	-	271	ARMA13
SA15	201	SA15	79	HADR15	-	-	-	-	36	A14	50	HA15	-	-	270	ARMA14
SA16	205	SA16	82	HADR16	-	-	-	-	35	A15	51	HA16	-	-	269	ARMA15
SA17	206	SA17	83	HADR17	-	-	-	-	34	A16	54	HA17	-	-	268	ARMA16
SA18	207	SA18	84	HADR18	-	-	-	-	3	A17	-	-	-	-	267	ARMA17
SA19	208	SA19	85	HADR19	-	-	-	-	-	-	-	-	-	-	266	ARMA18
SA20	209	SA20	86	HADR20	-	-	-	-	-	-	-	-	-	-	265	ARMA19
SA21	210	SA21	87	HADR21	-	-	-	-	-	-	-	-	-	-	264	ARMA20
SA22	211	SA22	-	-	174	ADR22	-	-	-	-	-	-	-	-	263	ARMA21
SA23	212	SA23	-	-	171	ADRH0	-	-	-	-	-	-	-	-	262	ARMA22
SA24	213	SA24	-	-	172	ADRH1	-	-	-	-	-	-	-	-	-	-
SA25	214	SA25	-	-	173	ADRH2	-	-	-	-	-	-	-	-	-	-

MSD16 - MSD31 DATA BUS LINE (TC10-1, TC11-1, TC12-1, TC13-1, TC14-1, TC26-1)

TC	10-1		11-1		12-1		13-1		14-1		26-1	
SIGNAL NAME	**IC3203/VAD CON**		**IC3402/ AV ENC**		**IC3503/RTSC**		**IC6701/GLUE**		**IC50003/AVDEC**		**IC37001/DV CODEC**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSD16	129	MDA0	81	HD0	108	HDAT0	12	LDEV0	55	HD0	101	ADDT0
MSD17	128	MDA1	82	HD1	107	HDAT1	13	LDEV1	56	HD1	100	ADDT1
MSD18	127	MDA2	85	HD2	106	HDAT2	11	LDEV2	57	HD2	99	ADDT2
MSD19	126	MDA3	86	HD3	105	HDAT3	10	LDEV3	59	HD3	98	ADDT3
MSD20	124	MDA4	88	HD4	103	HDAT4	7	LDEV4	60	HD4	96	ADDT4
MSD21	123	MDA5	89	HD5	102	HDAT5	8	LDEV5	61	HD5	95	ADDT5
MSD22	122	MDA6	90	HD6	100	HDAT6	9	LDEV6	63	HD6	94	ADDT6
MSD23	121	MDA7	92	HD7	99	HDAT7	14	LDEV7	64	HD7	93	ADDT7
MSD24	118	MDA8	93	HD8	98	HDAT8	2	LDEV8	65	HD8	91	ADDT8
MSD25	117	MDA9	94	HD9	97	HDAT9	4	LDEV9	67	HD9	90	ADDT9
MSD26	116	MDA10	97	HD10	96	HDAT10	3	LDEV10	68	HD10	89	ADDT10
MSD27	115	MDA11	98	HD11	95	HDAT11	208	LDEV11	70	HD11	88	ADDT11
MSD28	113	MDA12	99	HD12	94	HDAT12	207	LDEV12	72	HD12	86	ADDT12
MSD29	112	MDA13	101	HD13	90	HDAT13	6	LDEV13	73	HD13	85	ADDT13
MSD30	111	MDA14	102	HD14	89	HDAT14	205	LDEV14	74	HD14	84	ADDT14
MSD31	110	MDA15	103	HD15	88	HDAT15	203	LDEV15	76	HD15	83	ADDT15

MSA1 - MSA7 ADDRESS BUS LINE (TC24, TC10-2, TC11-2, TC12-2, TC13-2, TC14-2, TC26-2,TC36)

TC	24		10-2		11-2		12-2		13-2		14-2		26-2		36	
SIGNAL NAME	**IC6007/16bit BUFFER**		**IC3203/VAD CON**		**IC3402/AV ENC**		**IC3503/RTSC**		**IC6701/GLUE**		**IC50003/AVDEC**		**IC37001/DV CODEC**		**IC3608/MPEG4**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	23	4Y4	107	MAD0	106	HA0	61	HADR1	167	ADRL1	32	HA1	117	AD0	286	ARMA0
MSA2	22	4Y3	106	MAD1	107	HA1	64	HADR2	164	ADRL2	33	HA2	116	AD1	285	ARMA1
MSA3	20	4Y2	105	MAD2	108	HA2	65	HADR3	165	ADRL3	35	HA3	115	AD2	284	ARMA2
MSA4	19	4Y1	104	MAD3	109	HA3	66	HADR4	166	ADRL4	36	HA4	114	AD3	283	ARMA3
MSA5	17	3Y4	103	MAD4	105	HA4	67	HADR5	163	ADRL5	37	HA5	112	AD4	282	ARMA4
MSA6	16	3Y3	102	MAD5	-	-	68	HADR6	170	ADRL6	38	HA6	111	AD5	281	ARMA5
MSA7	14	3Y2	101	MAD6	-	-	69	HADR7	168	ADRL7	40	HA7	110	AD6	280	ARMA6

TO RAM DRIVE
P9801

———	1	
———	2	
RESET-	3	
GND	4	
DD7	5	
DD8	6	
DD6	7	
DD9	8	
DD5	9	
DD10	10	
DD4	11	
DD11	12	
DD3	13	
DD12	14	
DD2	15	
DD13	16	
DD1	17	
DD14	18	
DD0	19	
DD15	20	
GND	21	
———	22	
DMARQ	23	
GND	24	
DIOW-	25	
GND	26	
DIOR-	27	
GND	28	
IORDY	29	
———	30	
DMACK-	31	
GND	32	
INTRQ	33	
———	34	
DA1	35	
———	36	
DA0	37	
DA2	38	
DA0-	39	
DA1-	40	
———	41	
GND	42	
———	43	
———	44	

TO FP3501
DIGITAL P.C.B.
(RTSC SECTION)
P9802

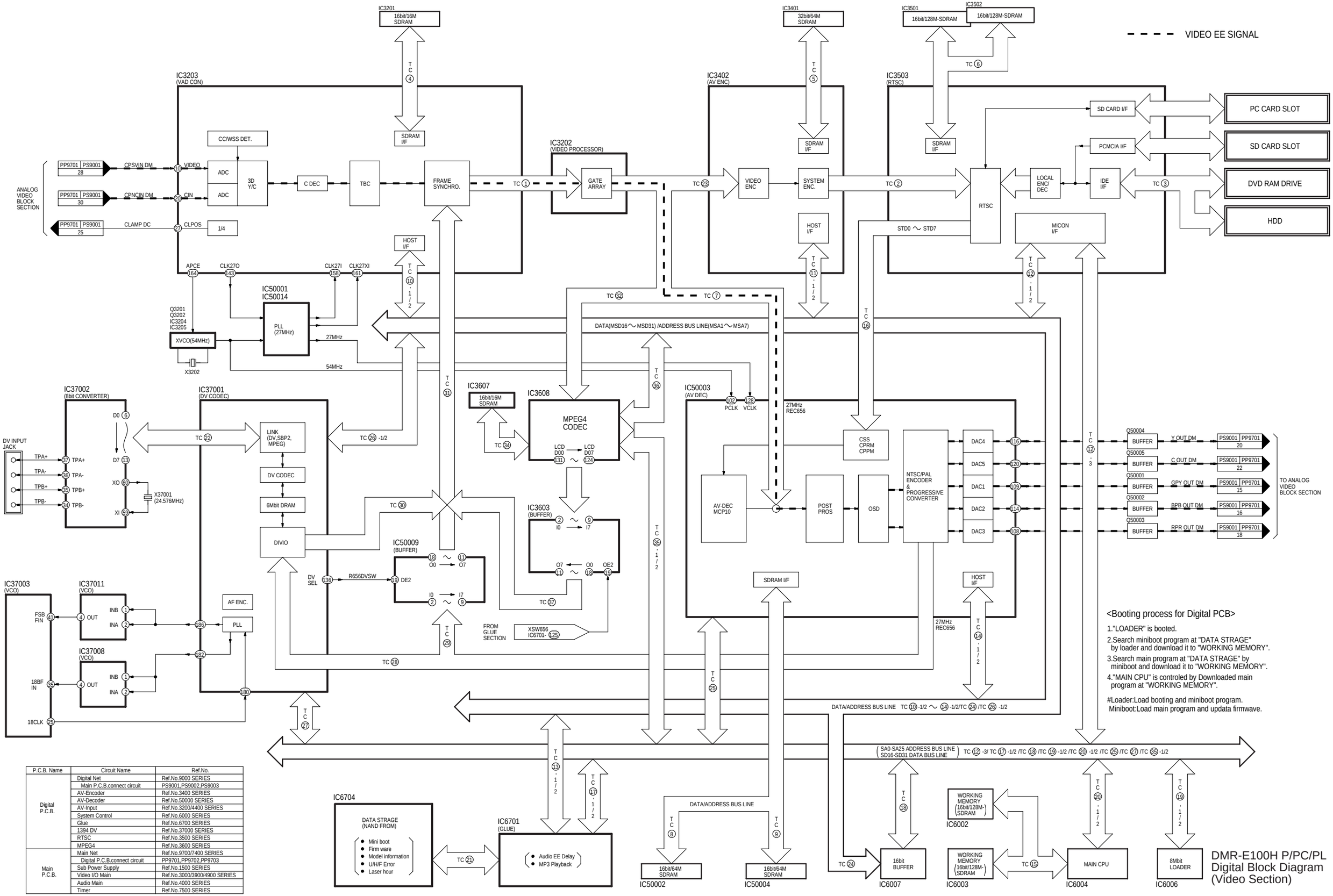
40	RESET-	
39	GND	
38	DD7	
37	DD8	
36	DD6	
35	DD9	
34	DD5	
33	DD10	
32	DD4	
31	DD11	
30	DD3	
29	DD12	
28	DD2	
27	DD13	
26	DD1	
25	DD14	
24	DD0	
23	DD15	
22	GND	
21	———	
20	DMARQ	
19	GND	
18	DIOW-	
17	GND	
16	DIOR-	
15	GND	
14	IORDY	
13	———	
12	DMACK-	
11	GND	
10	INTRQ	
9	———	
8	DA1	
7	———	
6	DA0	
5	DA2	
4	CS0-	
3	CS1-	
2	———	
1	GND	

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
DRIVE ATAPI Schematic Diagram

D C B A

1 2 3 4 5 6



<Booting process for Digital PCB>

1."LOADER" is booted.

2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".

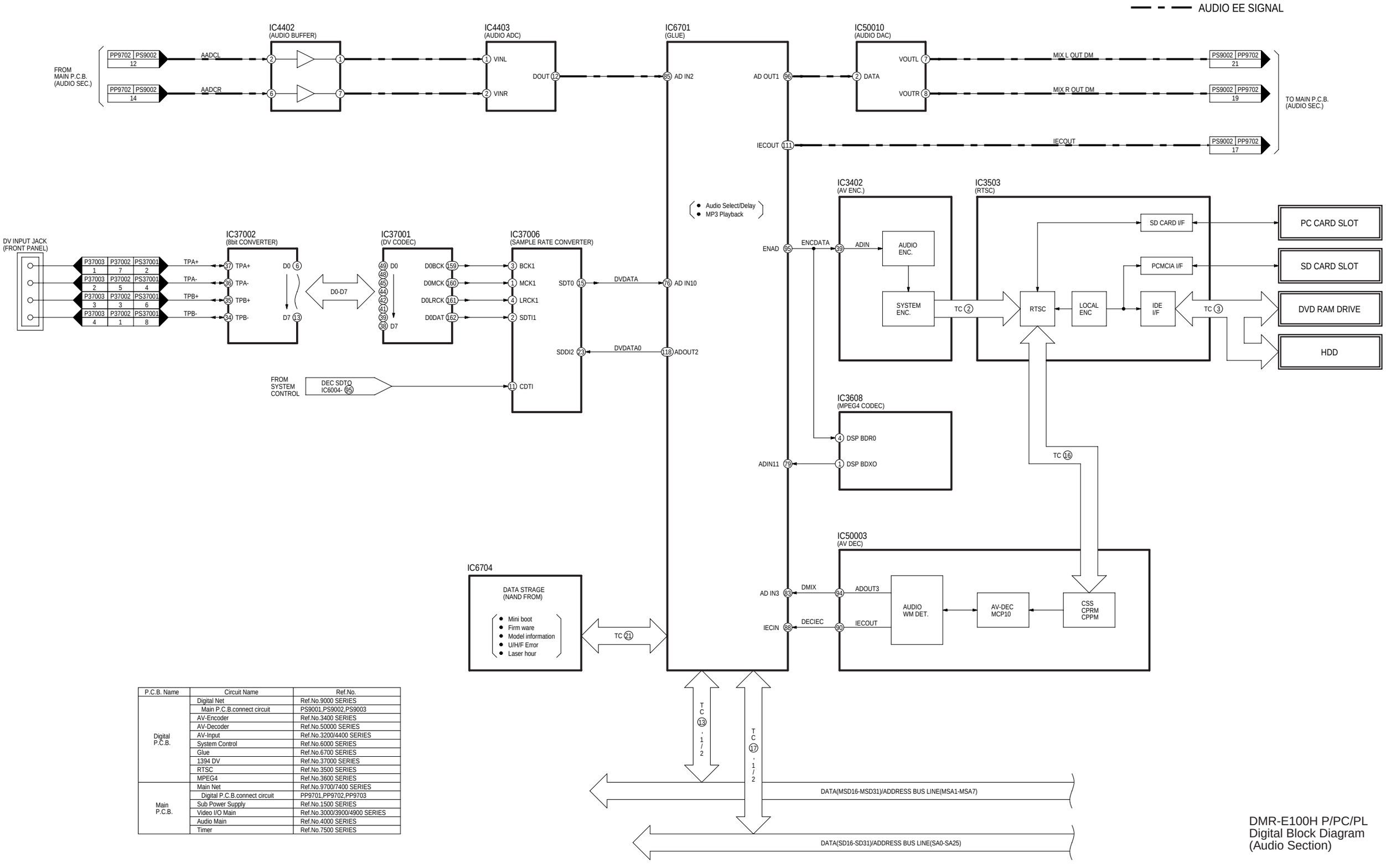
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".

4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	MPEG4	Ref.No.3600 SERIES
Main P.C.B.	Main Net	Ref.No.9700/7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

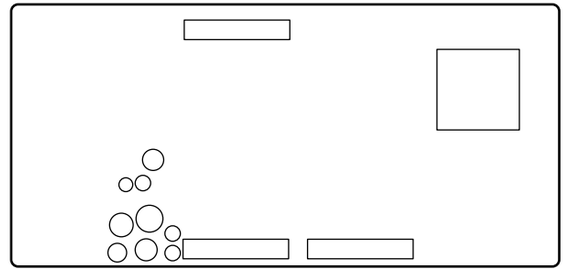
DMR-E100H P/PC/PL Digital Block Diagram (Video Section)



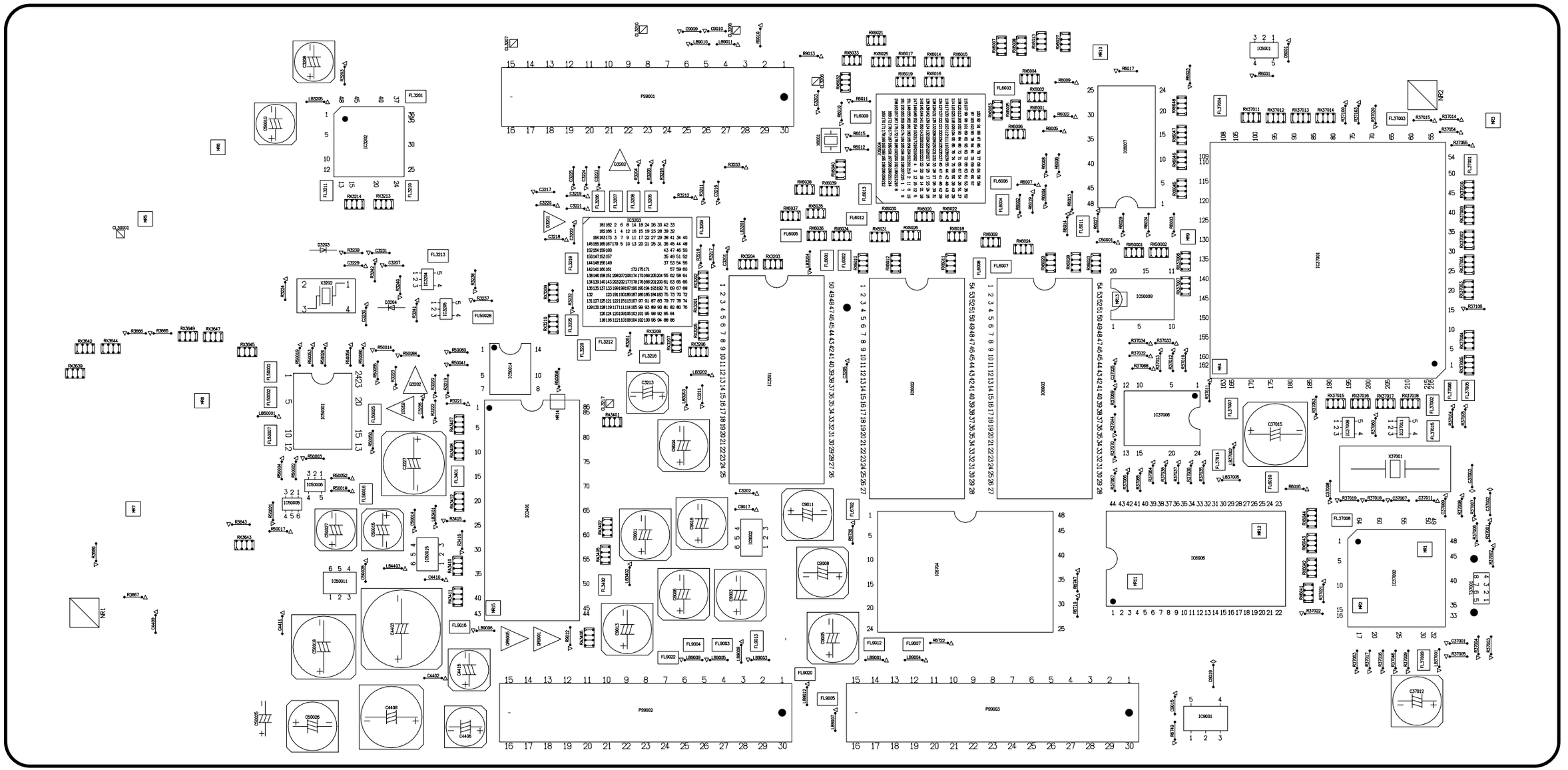
P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Digital Net	Ref.No.9000 SERIES
	Main P.C.B.connect circuit	PS9001,PS9002,PS9003
	AV-Encoder	Ref.No.3400 SERIES
	AV-Decoder	Ref.No.50000 SERIES
	AV-Input	Ref.No.3200/4400 SERIES
	System Control	Ref.No.6000 SERIES
	Glue	Ref.No.6700 SERIES
	1394 DV	Ref.No.37000 SERIES
	RTSC	Ref.No.3500 SERIES
	MPEG4	Ref.No.3600 SERIES
Main P.C.B.	Main Net	Ref.No.9700/7400 SERIES
	Digital P.C.B.connect circuit	PP9701,PP9702,PP9703
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O Main	Ref.No.3000/3900/4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500 SERIES

DMR-E100H P/PC/PL
Digital Block Diagram
(Audio Section)

OVER VIEW



DIGITAL P.C.B. (1/2)

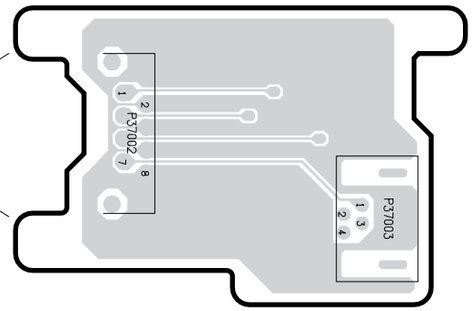


(COMPONENT SIDE)

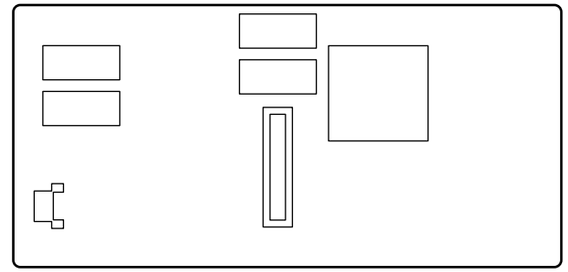
DMR-E100H P/PC/PL
DIGITAL P.C.B.(1/2)
(REP3543E:P/REP3543EF:PC/REP3543EG:PL)

1	2	3	4	5	6	7	8	9

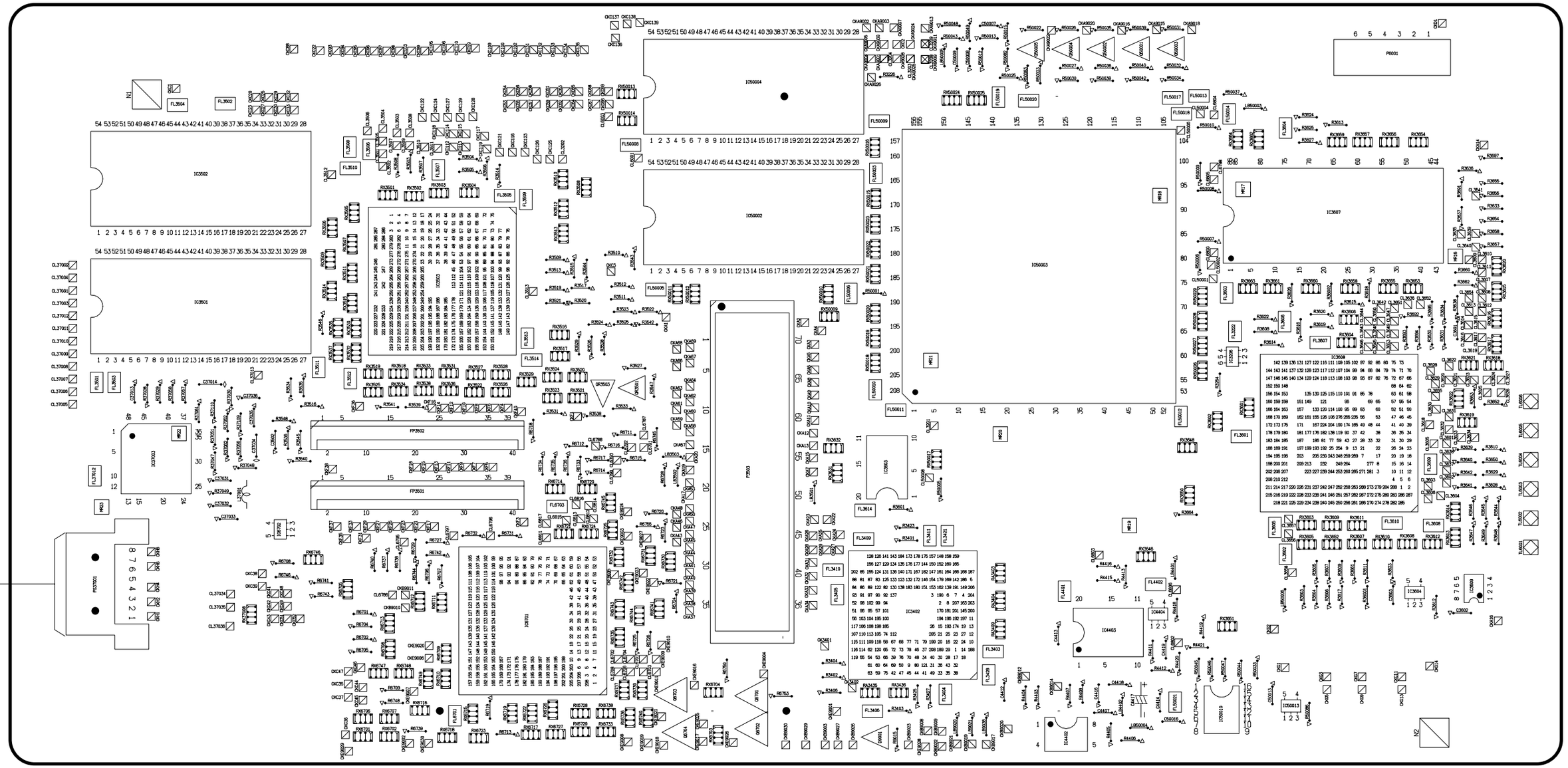
DV JACK P.C.B.



OVER VIEW



DIGITAL P.C.B. (2/2)



(FOIL SIDE)

DMR-E100H P/PC/PL
DV JACK P.C.B. (REP3540AB)
DIGITAL P.C.B. (2/2) (REP3543E:P/REP3543EF:PC/REP3543EG:PL)

Integrated Circuit		
IC3201	C-5	C
IC3202	D-3	C
IC3203	D-4	C
IC3204	D-3	C
IC3205	C-3	C
IC3206	C-7	F
IC3401	B-4	C
IC3402	B-6	F
IC3501	C-2	F
IC3502	D-2	F
IC3503	C-3	F
IC3603	B-6	F
IC3604	B-8	F
IC3607	D-8	F
IC3608	C-8	F
IC3609	B-9	F
IC4402	A-6	F
IC4403	B-7	F
IC4404	B-7	F
IC6001	E-8	C
IC6002	C-6	C
IC6003	C-6	C
IC6004	D-6	C
IC6006	B-7	C
IC6007	D-7	C
IC6701	B-4	F
IC6702	B-2	F
IC6704	B-6	C
IC9001	A-7	C
IC9002	B-5	C
IC37001	D-8	C
IC37002	B-8	C
IC37003	C-2	F
IC37006	C-7	C
IC37008	C-8	C
IC37011	C-8	C
IC50001	C-2	C
IC50002	D-5	F
IC50003	D-6	F
IC50004	E-5	F
IC50005	B-2	C
IC50006	B-2	C
IC50009	C-7	C
IC50010	A-7	F
IC50011	B-3	C
IC50013	A-8	F
IC50014	C-3	C
IC50015	B-3	C
Transistor		
Q3201	C-3	C
Q3202	C-3	C
Q6701	A-5	F
Q6702	A-5	F
Q6703	A-4	F
Q6704	A-4	F
Q50001	E-7	F
Q50002	E-7	F
Q50003	E-7	F
Q50004	E-6	F
Q50005	E-6	F
Transistor-resistor		
QR3501	C-4	F
QR3503	C-4	F
QR9001	B-4	C
QR9005	B-4	C
Test Point		
CK3401	B-5	F
CK3402	A-5	F
CKA1	C-4	F
CKA2	C-5	F
CKA3	C-5	F
CKA4	C-5	F
CKA5	C-5	F
CKA6	C-5	F
CKA7	B-5	F
CKA8	C-5	F
CKA9	C-5	F
CKA10	C-5	F
CKA11	C-5	F
CKA12	C-5	F
CKA13	C-5	F
CKA14	D-9	F
CKA15	C-5	F
CKA16	B-9	F
CKA17	B-4	F
CKA19	B-4	F
CKA20	C-4	F
CKA22	B-5	F

CKA23	B-5	F
CKA24	B-5	F
CKA25	B-5	F
CKA26	B-5	F
CKA27	B-5	F
CKA28	B-5	F
CKA29	B-5	F
CKA31	B-5	F
CKA32	B-5	F
CKA33	B-5	F
CKA34	B-5	F
CKA37	B-4	F
CKA38	B-4	F
CKA39	B-4	F
CKA40	B-4	F
CKA41	B-4	F
CKA43	B-4	F
CKA44	B-4	F
CKA45	B-4	F
CKA46	B-4	F
CKA47	B-4	F
CKA48	B-4	F
CKA50	B-4	F
CKA53	B-4	F
CKA57	C-4	F
CKA58	C-4	F
CKA59	C-4	F
CKA60	C-4	F
CKA61	C-4	F
CKA62	C-4	F
CKA63	C-4	F
CKA64	C-4	F
CKA66	C-4	F
CKA67	C-4	F
CKA68	C-4	F
CKA69	C-4	F
CKA9001	E-5	F
CKA9002	E-5	F
CKA9003	E-5	F
CKA9004	E-5	F
CKA9005	E-5	F
CKA9007	E-6	F
CKA9009	E-6	F
CKA9011	E-6	F
CKA9013	E-6	F
CKA9015	E-7	F
CKA9016	E-7	F
CKA9018	E-7	F
CKA9020	E-7	F
CKA9022	E-6	F
CKA9024	E-6	F
CKA9025	E-6	F
CKA9026	E-5	F
CKA9028	E-6	F
CKA9030	E-5	F
CKB9003	A-5	F
CKB9008	A-6	F
CKB9009	A-6	F
CKB9010	B-3	F
CKB9011	B-3	F
CKB9012	A-6	F
CKB9014	A-6	F
CKB9017	A-6	F
CKB9019	A-6	F
CKB9020	A-6	F
CKB9021	A-6	F
CKB9022	A-6	F
CKB9023	A-6	F
CKB9026	A-5	F
CKB9027	A-5	F
CKB9029	A-5	F
CKB9030	A-5	F
CKC1	E-2	F
CKC2	E-6	F
CKC3	D-4	F
CKC19	E-3	F
CKC20	D-2	F
CKC22	E-2	F
CKC23	D-2	F
CKC25	D-2	F
CKC27	D-2	F
CKC29	D-2	F
CKC30	D-2	F
CKC32	D-2	F
CKC33	D-2	F
CKC35	A-3	F
CKC36	A-3	F
CKC37	A-3	F
CKC38	B-2	F

CKC39	B-2	F
CKC41	B-2	F
CKC42	B-2	F
CKC43	B-2	F
CKC44	A-3	F
CKC45	A-3	F
CKC46	A-3	F
CKC47	A-3	F
CKC48	B-2	F
CKC49	B-2	F
CKC51	B-2	F
CKC52	B-2	F
CKC53	D-3	F
CKC54	E-3	F
CKC55	D-4	F
CKC56	E-4	F
CKC57	D-4	F
CKC58	E-4	F
CKC59	D-4	F
CKC61	E-4	F
CKC62	D-4	F
CKC63	E-4	F
CKC64	D-4	F
CKC65	E-4	F
CKC66	D-4	F
CKC67	D-4	F
CKC68	E-4	F
CKC69	E-4	F
CKC88	E-2	F
CKC93	E-3	F
CKC94	E-3	F
CKC95	E-3	F
CKC96	E-3	F
CKC97	E-3	F
CKC98	E-3	F
CKC99	E-3	F
CKC100	E-3	F
CKC102	E-4	F
CKC103	E-3	F
CKC105	E-3	F
CKC106	E-3	F
CKC109	E-3	F
CKC110	E-3	F
CKC112	D-3	F
CKC113	D-3	F
CKC114	D-3	F
CKC115	D-3	F
CKC116	D-3	F
CKC117	D-3	F
CKC118	D-3	F
CKC119	D-3	F
CKC121	D-3	F
CKC122	D-3	F
CKC123	D-4	F
CKC124	D-3	F
CKC125	D-4	F
CKC126	D-4	F
CKC127	D-3	F
CKC128	D-3	F
CKC129	D-3	F
CKC131	E-4	F
CKC132	E-4	F
CKC133	E-4	F
CKC134	E-4	F
CKC135	E-4	F
CKC136	E-4	F
CKC137	E-4	F
CKC138	E-4	F
CKC139	E-4	F
CKD1	E-9	F
CKE9001	A-5	F
CKE9002	A-3	F
CKE9003	B-4	F
CKE9004	A-5	F
CKE9005	B-4	F
CKE9006	A-3	F
CKE9007	A-3	F
CKE9008	A-4	F
CKE9009	A-4	F
CKE9010	B-4	F
CKE9011	A-4	F
CKE9016	A-4	F
CKF25	B-3	F
CKF27	B-3	F
CKF29	B-3	F
CKF3	B-4	F
CKF31	B-3	F
CKF33	B-3	F
CKF35	B-3	F

CKF36	C-3	F
CKF37	B-3	F
CKF38	B-3	F
CKF40	C-4	F
CKG1	A-8	F
CKG2	B-8	F
CKG3	A-8	F
CKG5	A-8	F
CKG7	A-8	F
CKG9	A-8	F
CKG11	A-8	F
CKG13	A-8	F
CKG14	A-8	F
CKH1	B-2	F
CKH2	B-2	F
CKH4	B-2	F
CKE9017	A-5	F
CKE9018	A-4	F
CKE9019	A-4	F
CKE9020	B-3	F
CKE9021	A-4	F
CKE9022	B-4	F
CKE9023	B-4	F
CKE9024	B-4	F
CKE9025	A-5	F
CKE9026	A-5	F
CKE9027	B-4	F
CKE9028	A-6	F
CKE9029	A-3	F
CKE9030	A-3	F
CKF1	C-4	F
CKF4	C-3	F
CKF5	B-3	F
CKF6	C-3	F
CKF7	B-3	F
CKF8	C-3	F
CKF9	B-3	F
CKF10	C-3	F
CKF11	B-3	F
CKF12	C-3	F
CKF13	B-3	F
CKF14	C-3	F
CKF15	B-3	F
CKF16	C-3	F
CKF17	B-3	F
CKF18	B-3	F
CKF21	B-3	F
CKF23	B-3	F
CKH6	B-2	F
CKH8	B-2	F
CL3201	C-6	F
CL3202	D-4	F
CL3203	E-6	F
CL3204	E-5	F
CL3205	E-5	C
CL3206	E-5	C
CL3207	E-4	C
CL3208	E-6	F
CL3209	E-6	F
CL3210	E-4	C
CL3217	C-4	C
CL3501	D-3	F
CL3502	D-3	F
CL3503	D-3	F
CL3504	D-3	F
CL3505	D-3	F
CL3506	D-3	F
CL3507	D-3	F
CL3508	D-3	F
CL3509	D-3	F
CL3510	D-3	F
CL3511	D-3	F
CL3512	D-3	F
CL3513	C-4	F
CL3601	C-9	F
CL3602	B-9	F
CL3603	B-8	F
CL3604	B-9	F
CL3605	C-8	F
CL3606	B-8	F
CL3607	C-9	F
CL3608	C-9	F
CL3609	D-9	F
CL3610	D-9	F
CL3611	D-9	F
CL3612	C-9	F
CL3613	C-9	F
CL3614	C-9	F
CL3615	C-9	F

CL3616	C-9	F
CL3617	C-9	F
CL3618	C-8	F
CL3619	C-9	F
CL3620	C-9	F
CL3621	C-9	F
CL3622	C-9	F
CL3623	C-9	F
CL3624	C-9	F
CL3625	C-9	F
CL3626	C-9	F
CL3627	C-9	F
CL3628	C-8	F
CL3629	C-8	F
CL3630	C-8	F
CL3631	C-9	F
CL3632	C-9	F
CL3633	C-9	F
CL3634	C-9	F
CL3635	D-9	F
CL3636	C-8	F
CL3637	B-9	F
CL3638	C-9	F
CL3639	D-9	F
CL3640	D-9	F
CL3641	D-9	F
CL3642	C-8	F
CL3643	C-8	F
CL3644	C-8	F
CL3645	C-8	F
CL3646	C-8	F
CL3647	C-8	F
CL3648	C-8	F
CL3649	C-8	F
CL3650	C-8	F
CL3651	C-8	F
CL3652	C-8	F
CL3653	C-8	F
CL3654	C-9	F
CL3655	C-8	F
CL3656	B-8	F
CL3657	B-8	F
CL3658	B-8	F
CL6001	D-4	F
CL6003	D-4	F
CL6701	A-4	F
CL6702	A-4	F
CL6703	A-4	F
CL6704	A-4	F
CL6706	A-4	F
CL6708	A-4	F
CL6786	B-3	F
CL6787	C-4	F
CL6788	C-4	F
CL6790	B-4	F
CL6791	C-4	F
CL6792	C-4	F
CL6793	C-4	F
CL6795	B-3	F
CL6796	B-3	F
CL6797	B-3	F
CL6798	D-7	F
CL6800	D-7	F
CL6802	B-7	F
CL6803	B-7	F
CL6804	D-7	F
CL6805	D-7	F
CL6806	B-7	F
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CL6812	B-4	F
CL6813	B-4	F
CL6814	B-4	F
CL6815	B-4	F
CL6816	B-4	F
CL6817	B-4	F
CL30001	D-1	C
CL37001	C-1	F
CL37002	D-1	F
CL37003	C-1	F
CL37004	C-1	F
CL37005	C-1	F
CL37006	C-1	F
CL37007	C-1	F
CL37008	C-1	F
CL37009	C-1	F
CL37010	C-1	F
CL37011	C-1	F
CL37012	C-1	F
CL37013	C-2	F

CL37034	B-2	F
CL37035	B-2	F
CL37036	B-2	F
CL50001	C-7	F
CL50002	D-7	F
CL50004	D-7	F
CL50006	D-7	F
CL50008	B-6	F
TL6001	B-9	F
TL6002	B-9	F
TL6003	B-9	F
TL6004	C-9	F
TL6005	C-9	F
TL6006	C-9	F
Connector		
FP3501	B-3	F
FP3502	C-3	F
P3503	B-5	F
P6001	E-8	F
PS9001	D-4	C
PS9002	A-4	C
PS9003	A-6	C
PS37001	B-1	F
Diode		
D3201	D-4	C
D3202	D-4	C
D3203	D-2	C
D3204	C-3	C
D9001	A-5	F
Crystal Osillator		
X3202	C-3	C
X6001	D-5	C
X37001	B-8	C
Coil		
L37001	B-2	F
LB3201	D-5	C
LB3202	C-5	C
LB3203	C-4	C
LB3204	D-5	C
LB3205	D-2	C
LB3401	B-3	C
LB3402	B-4	C
LB3501	B-5	F
LB3502	B-4	F
LB3503	C-4	F
LB4401	B-7	F
LB4402	A-7	F
LB4403	B-3	C
LB9001	A-5	C
LB9003	A-5	C
LB9004	A-6	C
LB9005	A-5	C
LB9006	B-3	C
LB9007	A-5	C
LB9008	A-5	C
LB9009	A-4	C
LB9010	E-5	C
LB9011	E-5	C
LB9012	A-5	C
LB9020	A-6	F
LB9021	A-6	F
LB9038	A-6	F
LB37001	A-9	C
LB37002	C-7	C
LB37005	B-7	C
LB50001	C-2	C
LB50003	D-7	F
LB50004	A-7	F
LB50005	E-6	F
LB50006	B-8	F
Filter		
FL3201	D-3	C
FL3205	D-4	C
FL3206	D-4	C
FL3207	D-4	C
FL3208	D-4	C
FL3209	D-5	C
FL3210	D-3	C
FL3211	D-3	C
FL3212	C-4	C
FL3213	D-3	C
FL3216	C-4	C
FL3218	D-4	C
FL3220	C-4	C
FL3222	C-7	F
FL3225	C-4	C
FL3401	B-3	C
FL3402	B-4	C
FL3403	A-6	F

FL3404	A-6	F
FL3405	B-5	F
FL3406	A-5	F
FL3409	B-5	F
FL3410	B-5	F
FL3411	B-6	F
FL3421	B-6	F
FL3428	A-6	F
FL3501	C-1	F
FL3502	D-2	F
FL3503	C-1	F
FL3504	D-2	F
FL3505	D-3	F
FL3506	D-3	F
FL3507	D-3	F
FL3508	D-3	F
FL3509	D-4	F
FL3510	D-3	F
FL3511	C-2	F
FL3512	C-3	F
FL3513	C-4	F
FL3514	C-4	F
FL3601	C-7	F
FL3602	B-8	F
FL3603	C-7	F
FL3604	D-8	F
FL3605	B-8	F
FL3606	C-8	F
FL3607	C-8	F
FL3608	B-8	F
FL3609	B-8	F
FL3610	B-8	F
FL3614	B-5	F
FL4401	B-6	F
FL4402	B-7	F
FL6001	D-5	C
FL6002	D-5	C
FL6003	E-6	C
FL6004	D-6	C
FL6005	D-5	C
FL6006	D-6	C
FL6007	D-6	C
FL6008	D-6	C
FL6009	D-5	C
FL6010	B-8	C
FL6011	D-7	C
FL6012	D-5	C
FL6013	D-5	C
FL6701	A-3	F
FL6702	B-5	C
FL6703	B-4	F
FL9003	B-5	C
FL9004	B-4	C
FL9005	A-5	C
FL9007	B-6	C
FL9012	B-5	C
FL9013	B-5	C
FL9016	B-3	C
FL9020	A-5	C
FL9022	A-4	C
FL37001	D-9	C
FL37002	C-8	C
FL37003	D-8	C
FL37004	D-7	C
FL37005	C-9	C
FL37006	C-9	C
FL37007	C-7	C
FL37008	B-8	C
FL37009	A-8	C
FL37012	B-1	F
FL37014	C-7	C
FL37015	C-8	C
FL50001	C-2	C
FL50002	C-2	C
FL50005	C-4	F
FL50006	C-5	F
FL50007	C-2	C
FL50008	D-4	F
FL50009	D-5	F
FL50010	C-5	F
FL50011	C-6	F
FL50012	C-7	F
FL50013	D-7	F
FL50014	D-7	F
FL50016	B-3	C
FL50017	D-7	F
FL50018	D-7	F
FL50019	D-6	F
FL50020	D-6	F

FL50021	A-7	F
FL50023	D-5	F
FL50025	C-3	C
FL50028	C-3	C
Capacitor		
C3201	D-5	C
C3202	B-5	C
C3203	D-5	C
C3205	C-5	C
C3207	D-3	C
C3208	E-2	C
C3211	C-5	C
C3213	C-4	C
C3216	D-5	C
C3217	D-4	C
C3218	D-4	C
C3219	D-4	C
C3220	D-4	C
C3221	D-4	C
C3222	D-4	C
C3223	D-4	C
C3224	D-4	C
C3225	D-4	C
C3226	C-3	C
C3227	C-3	C
C3229	D-3	C
C3230	C-3	C
C3231	D-3	C
C3502	C-2	F
C3601	C-9	F
C3602	B-9	F
C3603	B-8	F
C4402	A-3	C
C4403	B-3	C
C4406	A-3	C
C4407	A-7	F
C4408	A-3	C
C4409	B-2	C
C4410	B-3	C
C4411	B-2	C
C4412	A-6	F
C4413	B-6	F
C4414	A-7	F
C4415	A-3	C
C4416	A-7	F
C4417	A-7	F
C4418	A-7	F
C4419	A-7	F
C6001	E-8	C
C9001	B-4	C
C9003	B-5	C
C9004	C-4	C
C9005	B-5	C
C9006	B-4	C
C9008	B-5	C
C9009	E-4	C
C9010	E-5	C
C9011	B-5	C
C9013	B-4	C
C9015	A-7	C
C9016	B-5	C
C9017	B-5	C
C9019	A-7	C
C37001	B-9	C
C37002	B-9	C
C37003	B-9	C
C37007	B-8	C
C37008	B-8	C
C37009	B-9	C
C37011	B-8	C
C37012	A-8	C
C37013	C-1	F
C37014	C-2	F
C37015	C-8	C
C37025	C-7	C
C37031	B-2	F
C37032	B-2	F
C37033	B-2	F
C37034	C-2	F
C37035	C-2	F
C37036	C-2	F
C50001	D-7	C
C50007	E-6	F
C50008	E-6	F
C50009	E-6	F
C50010	D-2	C
C50013	A-8	F
C50014	B-3	C
C50015	B-3	C

C50016	A-7	F
C50018	B-2	C
C50025	A-2	C
C50026	A-2	C
C50027	B-3	C
C50028	B-3	C
Resistor		
R3203	E-3	C
R3204	D-4	C
R3205	D-4	C
R3211	D-5	C
R3212	D-4	C
R3216	D-4	C
R3217	D-5	C
R3218	D-5	C
R3219	C-3	C
R3220	C-3	C
R3221	C-3	C
R3222	C-3	C
R3223	C-3	C
R3224	C-2	C
R3226	E-6	F
R3232	C-4	C
R3233	D-5	C
R3237	C-3	C
R3238	D-3	C
R3239	D-3	C
R3240	C-3	C
R3241	C-3	C
R3242	D-3	C
R3254	C-7	F
R3261	C-4	C
R3401	B-6	F
R3402	A-5	F
R3403	A-6	F
R3404	A-5	F
R3406	A-5	F
R3415	B-3	C
R3416	B-3	C
R3423	B-6	F
R3425	A-6	F
R3427	A-6	F
R3503	D-3	F
R3504	D-3	F
R3505	D-3	F
R3506	D-3	F
R3507	D-3	F
R3508	D-3	F
R3509	D-4	F
R3510	D-4	F
R3511	C-4	F
R3512	C-4	F
R3513	D-4	F
R3514	D-3	F
R3515	D-4	F
R3516	C-2	F
R3517	C-4	F
R3519	C-4	F
R3520	C-4	F
R3521	C-4	F
R3522	C-4	F
R3523	C-4	F
R3524	C-4	F
R3525	C-4	F
R3526	C-4	F
R3527	C-4	F
R3528	C-4	F
R3529	C-4	F
R3531	C-4	F
R3533	C-4	F
R3534	C-2	F
R3535	C-2	F
R3536	C-2	F
R3538	C-4	F
R3539	C-3	F
R3540	C-2	F
R3541	C-3	F
R3542	C-4	F
R3543	D-4	F
R3544	D-4	F
R3545	C-2	F
R3546	C-2	F
R3547	C-4	F
R3548	C-2	F
R3601	B-6	F
R3603	B-8	F
R3604	B-8	F
R3605	B-8	F
R3606	B-8	F

R3607	B-8	F
R3608	C-8	F
R3609	B-8	F
R3610	C-9	F
R3611	B-8	F
R3612	B-8	F
R3613	D-8	F
R3614	C-8	F
R3615	C-8	F
R3616	C-8	F
R3617	B-8	F
R3618	C-8	F
R3619	C-8	F
R3620	C-8	F
R3622	C-8	F
R3623	B-8	F
R3624	D-8	F
R3625	D-8	F
R3626	C-8	F
R3627	D-8	F
R3628	B-9	F
R3629	B-9	F
R3630	C-8	F
R3631	C-9	F
R3633	D-9	F
R3634	C-9	F
R3636	D-9	F
R3637	D-9	F
R3638	C-9	F
R3639	C-9	F
R3640	C-9	F
R3641	B-9	F
R3642	B-9	F
R3643	B-2	C
R3644	B-9	F
R3645	B-9	F
R3646	B-9	F
R3647	B-9	F
R3648	B-9	F
R3649	B-9	F
R3650	C-9	F
R3652	C-9	F
R3653	C-9	F
R3654	D-9	F
R3655	D-9	F
R3656	D-9	F
R3657	D-9	F
R3658	D-9	F
R3660	D-9	F
R3661	B-8	F
R3662	C-9	F
R3664	B-7	F
R3665	C-2	C
R3666	C-1	C
R3667	B-1	C
R3680	B-1	C
R3691	D-9	F
R3692	C-8	F
R3693	C-8	F
R3694	C-8	F
R3695	C-8	F
R3697	D-9	F
R4403	A-6	F
R4404	A-6	F
R4405	A-7	F
R4406	A-7	F
R4407	A-7	F
R4408	A-7	F
R4411	A-7	F
R4412	A-7	F
R4413	B-7	F
R4415	B-7	F
R4416	B-7	F
R4418	B-7	F
R4419	B-7	F
R4420	A-7	F
R4421	A-7	F
R6001	E-8	C
R6002	D-6	C
R6003	D-7	C
R6004	D-6	C
R6005	D-6	C
R6006	D-6	C
R6007	D-6	C
R6008	D-6	C
R6009	E-6	C
R6010	D-5	C
R6011	D-5	C
R6012	D-5	C

R6013	D-7	C
R6014	D-7	C
R6015	D-5	C
R6016	B-8	C
R6017	E-7	C
R6019	D-6	C
R6022	D-6	C
R6023	E-7	C
R6024	D-7	C
R6027	D-7	C
R6029	D-7	C
R6701	B-3	F
R6702	B-3	F
R6704	B-3	F
R6705	A-3	F
R6706	B-3	F
R6707	B-3	F
R6708	B-2	F
R6709	A-3	F
R6710	B-7	C
R6711	C-4	F
R6712	C-4	F
R6713	A-3	F
R6714	B-4	F
R6715	C-4	F
R6716	C-4	F
R6717	C-4	F
R6718	C-4	F
R6719	A-3	F
R6720	B-4	F
R6721	B-4	F
R6722	B-6	C
R6723	B-4	F
R6724	B-4	F
R6725	B-4	F
R6726	B-4	F
R6727	B-3	F
R6728	B-4	F
R6729	B-3	F
R6730	B-5	C
R6731	B-3	F
R6732	B-3	F
R6733	B-4	F
R6734	B-4	F
R6735	B-4	F
R6736	B-4	F
R6737	B-3	F
R6738	B-3	F
R6739	A-3	F
R6740	B-3	F
R6741	B-2	F
R6742	B-3	F
R6743	B-2	F
R6744	B-3	F
R6745	C-4	F
R6746	B-2	F
R6747	B-7	C
R6748	A-3	F
R6749	A-7	C
R6750	A-5	F
R6753	A-5	F
R6755	B-4	F
R9010	E-5	C
R9012	B-4	C
R9013	E-5	C
R9015	A-6	F
R36001	B-8	F
R36002	C-8	F
R37001	B-9	C
R37002	B-9	C
R37003	B-9	C
R37004	B-9	C
R37005	A-9	C
R37006	B-9	C
R37007	B-9	C
R37008	B-9	C
R37009	A-8	C
R37010	C-7	C
R37011	C-7	C
R37012	C-7	C
R37013	C-7	C
R37014	D-9	C
R37015	D-8	C
R37016	A-8	C
R37017	A-8	C
R37018	B-8	C
R37019	B-8	C
R37020	D-8	C
R37021	B-8	C

R37022	B-8	C
R37028	C-2	F
R37029	C-2	F
R37030	C-2	F
R37032	C-7	C
R37033	C-7	C
R37034	C-7	C
R37035	B-7	C
R37036	B-7	C
R37037	B-7	C
R37038	B-7	C
R37044	C-7	C
R37046	A-8	C
R37047	C-2	F
R37048	B-2	F
R37049	B-2	F
R37050	C-2	F
R37051	C-2	F
R37052	C-2	F
R37053	C-8	C
R37054	D-9	C
R37055	D-9	C
R37057	C-2	F
R37058	C-2	F
R37060	C-8	C
R37061	C-2	F
R37062	C-2	F
R37063	A-8	C
R37064	B-7	C
R37065	B-7	C
R37066	B-7	C
R37067	B-7	C
R37068	C-7	C
R37069	C-7	C
R37070	C-7	C
R37100	D-8	C
R37103	D-8	C
R37104	C-9	C
R37105	C-9	C
R37106	C-9	C
R37109	C-2	F
R37110	C-2	F
R50001	C-5	F
R50002	B-2	C
R50003	C-2	C
R50004	B-2	C
R50005	B-6	F
R50006	D-7	F
R50007	D-7	F
R50008	D-7	F
R50009	D-7	F
R50010	D-7	F
R50012	E-6	F
R50013	E-6	F
R50014	C-3	C
R50015	E-6	F
R50017	B-2	C
R50018	B-3	C
R50019	C-2	C
R50021	B-2	C
R50022	E-6	F
R50023	E-6	F
R50024	C-2	C
R50025	E-6	F
R50026	E-6	F
R50027	E-6	F
R50030	E-6	F
R50031	E-7	F
R50032	E-7	F
R50033	A-8	F
R50034	E-7	F
R50035	E-7	F
R50036	E-7	F
R50037	D-7	F
R50038	E-7	F
R50039	E-7	F
R50040	E-7	F
R50041	C-3	C
R50042	E-7	F
R50043	E-6	F
R50044	A-7	F
R50045	A-7	F
R50046	A-7	F
R50047	A-7	F
R50048	E-6	F
R50049	E-6	F
R50050	C-3	C
R50052	B-3	C
R50053	C-2	C

R50054	C-3	C
R50055	C-3	C
R50058	C-4	C
R50060	C-3	C
R50080	C-3	C
R50082	E-6	F
R50083	E-6	F
R50084	C-3	C
R50086	A-8	F
RA3401	C-4	C
RA3402	B-4	C
RA3403	B-6	F
RA3404	B-6	F
RA3405	B-4	C
RA3406	B-4	C
RA3407	C-3	C
RA3408	C-3	C
RA3409	B-6	F
RA3410	B-3	C
RA3411	B-3	C
RA3412	B-3	C
RA3435	A-5	F
RA3436	A-6	F
RX3201	C-5	C
RX3202	D-5	C
RX3203	D-5	C
RX3204	D-5	C
RX3205	C-5	C
RX3206	C-5	C
RX3207	C-4	C
RX3208	C-4	C
RX3209	C-4	C
RX3210	C-4	C
RX3213	D-3	C
RX3214	D-3	C
RX3501	D-3	F
RX3502	D-3	F
RX3503	D-3	F
RX3504	D-3	F
RX3505	D-3	F
RX3506	D-3	F
RX3507	D-3	F
RX3508	D-4	F
RX3509	D-3	F
RX3510	D-4	F
RX3511	D-3	F
RX3512	D-4	F
RX3513	D-4	F
RX3514	C-3	F
RX3515	C-3	F
RX3516	C-4	F
RX3517	C-4	F
RX3518	C-3	F
RX3519	C-3	F
RX3520	C-4	F
RX3521	C-4	F
RX3522	C-3	F
RX3523	C-4	F
RX3524	C-4	F
RX3525	C-3	F
RX3526	C-3	F
RX3527	C-3	F
RX3528	C-3	F
RX3529	C-4	F
RX3530	C-3	F
RX3531	C-3	F
RX3532	C-3	F
RX3533	C-3	F
RX3534	C-3	F
RX3535	C-3	F
RX3536	C-3	F
RX3537	C-3	F
RX3538	C-3	F
RX3601	C-7	F
RX3602	C-7	F
RX3603	B-8	F
RX3604	C-8	F
RX3605	B-8	F
RX3606	C-8	F
RX3607	B-8	F
RX3608	B-8	F
RX3609	B-8	F
RX3610	B-8	F
RX3611	B-8	F
RX3612	B-8	F
RX3613	B-9	F
RX3614	B-9	F
RX3615	C-9	F
RX3616	C-9	F

RX3617	C-9	F
RX3618	C-9	F
RX3619	C-9	F
RX3620	D-9	F
RX3621	C-9	F
RX3622	C-9	F
RX3631	B-5	F
RX3632	C-5	F
RX3642	C-1	C
RX3643	B-2	C
RX3644	C-1	C
RX3645	C-2	C
RX3646	B-7	F
RX3647	C-2	C
RX3648	C-7	F
RX3649	C-2	C
RX3650	B-7	F
RX3651	B-7	F
RX3652	B-8	F
RX3653	C-8	F
RX3654	D-8	F
RX3655	C-8	F
RX3656	D-8	F
RX3657	D-8	F
RX3658	C-8	F
RX3659	D-8	F
RX3660	C-8	F
RX3661	C-8	F
RX3662	D-8	F
RX3663	C-7	F
RX3664	D-7	F
RX6001	D-6	C
RX6002	D-6	C
RX6003	D-6	C
RX6004	E-6	C
RX6005	D-6	C
RX6006	D-6	C
RX6007	E-6	C
RX6008	E-6	C
RX6009	D-6	C
RX6010	D-5	C
RX6011	D-6	C
RX6012	D-6	C
RX6013	E-6	C
RX6014	E-6	C
RX6015	E-6	C
RX6016	E-6	C
RX6017	E-6	C
RX6018	D-6	C
RX6019	E-6	C
RX6020	D-6	C
RX6021	E-5	C
RX6022	D-6	C
RX6023	D-7	C
RX6024	D-6	C
RX6025	E-6	C
RX6026	D-6	C
RX6027	E-6	C
RX6028	D-7	C
RX6029	D-6	C
RX6030	D-6	C
RX6031	D-5	C
RX6032	E-5	C
RX6033	E-5	C
RX6034	D-5	C
RX6035	D-5	C
RX6036	D-5	C
RX6037	D-5	C
RX6038	D-5	C
RX6039	D-5	C
RX6040	D-5	C
RX6041	B-8	C
RX6042	B-8	C
RX6043	B-8	C
RX6044	B-8	C
RX6045	D-7	C
RX6046	D-7	C
RX6047	D-7	C
RX6048	D-7	C
RX6701	A-3	F
RX6702	A-3	F
RX6703	A-5	F
RX6704	A-5	F
RX6705	B-3	F
RX6706	A-3	F
RX6707	A-3	F
RX6708	A-3	F
RX6709	A-3	F
RX6710	A-3	F

RX6711	B-3	F
RX6712	B-3	F
RX6713	B-3	F
RX6714	B-4	F
RX6715	A-3	F
RX6716	A-3	F
RX6717	A-4	F
RX6718	A-3	F
RX6719	A-3	F
RX6720	B-4	F
RX6721	B-4	F
RX6722	A-4	F
RX6723	A-3	F
RX6724	B-4	F
RX6725	B-4	F
RX6726	A-4	F
RX6727	A-4	F
RX6728	A-4	F
RX6729	A-4	F
RX6730	B-4	F
RX6731	B-4	F
RX6732	B-4	F
RX6733	A-4	F
RX6735	B-4	F
RX6736	A-4	F
RX6737	A-4	F
RX6738	A-4	F
RX6739	A-4	F
RX6740	A-4	F
RX6741	B-4	F
RX6742	B-4	F
RX6743	B-4	F
RX6744	B-4	F
RX6745	B-4	F
RX6746	B-2	F
RX6747	A-3	F
RX6748	A-3	F
RX6749	A-3	F
RX37001	D-9	C
RX37002	D-9	C
RX37003	C-9	C
RX37004	C-9	C
RX37005	C-9	C
RX37006	D-7	C
RX37007	C-7	C
RX37008	B-2	F
RX37009	D-9	C
RX37010	D-9	C
RX37011	D-7	C
RX37012	D-8	C
RX37013	D-8	C
RX37014	D-8	C
RX37015	C-8	C
RX37016	C-8	C
RX37017	C-8	C
RX37018	C-8	C
RX50001	D-7	C
RX50002	D-7	C
RX50009	C-5	F
RX50010	C-5	F
RX50011	C-4	F
RX50012	C-4	F
RX50013	D-4	F
RX50014	D-4	F
RX50015	D-5	F
RX50016	D-5	F
RX50017	C-6	F
RX50018	C-5	F
RX50019	C-5	F
RX50020	C-5	F
RX50021	D-5	F
RX50022	D-5	F
RX50023	D-5	F
RX50024	D-6	F
RX50025	D-6	F
RX50026	C-7	F
RX50027	C-7	F
RX50028	C-7	F
RX50029	C-7	F
Transformer		
T37001	B-9	C

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE

TO PP9701
MAIN P.C.B.
(MAIN NET)
PS9001

CPNCIN DM	30
DGND	29
V YIN DM	28
DGND	27
CLAMP PULSE	26
CLAMP DC	25
Y GCA CONT	24
DGND	23
COUT DM	22
DGND	21
YOUT DM	20
DGND	19
RPROUT DM	18
DGND	17
BPBOUT DM	16
GPYOUT DM	15
DGND	14
	13
DGND	12
	11
DGND	10
	9
DGND	8
	7
DGND	6
I2C5DT	5
I2C5CK	4
SCURVE0	3
SCURVE1	2
C GCA CONT	1

C9009 47P
C9010 47P
LB9010 J0JHC0000032
LB9011 J0JHC0000032
R9010 0
R9013 0
FL9016 F1H0J1050018
D9001 MA3Z142K0LG

CPNCIN DM (AI)
CPSVIN DM (AI)
CLAMP PULSE (AI)
CLAMP DC (AI)
Y GCA COUT (AI)
COUT DM (AD)
YOUT DM (AD)
RPROUT DM (AD)
BPBOUT DM (AD)
GPYOUT DM (AD)
I2C5DT (G)
I2C5CK (G)
SCURVE0 (G)
SCURVE1 (G)
C GCA CONT (AI)
AU5V (AI)(AD)
AUGND (AI)(AD)
XDMUTE (AD)
XRESET (S)
MIXLOUT DM (AD)
MIXROUT DM (AD)
IECOUT (G)
AADC R (AI)
AADC L (AI)
ASEL0 (G)
ASEL1 (G)

TO PP9702
MAIN P.C.B.
(MAIN NET)
PS9002

D5V	30
ANA3.3V	29
X SW 5.9V	28
D 1.5V	27
D 1.8V	26
DGND	25
DGND	24
XDMUTE	23
AU5V	22
MIXLOUT DM	21
AUGND	20
MIXROUT DM	19
AUGND	18
IECOUT	17
AUGND	16
AUGND	15
AADC R	14
AUGND	13
AADC L	12
ASEL0	11
ASEL1	10
	9
PRGSEL (H)	8
DGND	7
D1.8V	6
D1.8V	5
D1.5V	4
X SW 5.9V	3
ANA3.3V	2
D5V	1

R9015 5600
LB9006 J0JHC0000045
LB9020 J0JCC0000103
LB9021 J0JCC0000103
LB9038 220
R9012 100
LB9009 J0JHC0000032
LB9005 J0JHC0000032
LB9008 J0JHC0000032
LB9003 J0JHC0000045
LB9012 J0JHC0000045

FL9022 F1H0J1050018 — C9013 6V47
FL9004 F1H0J1050018 — C9001 6V47
FL9003 F1H0J1050018 — C9006 6V47
FL9013 F1H0J1050018 — C9003 6V47
FL9020 F1H0J1050018 — C9011 6V47

D1.8V (EN)(DV)(AI)
D1.5V (AD)
X SW 5.9V (DS)
ANA3.3V (AI)(AD)(EN)(DV)
PRGSEL (H) (S)
D5V (G)(AD)(DS)

QR9001 UNR511100L (PROGRESSIVE:ON)
QR9005 UNR521300L (PROGRESSIVE:ON)

IC9002 C0DBCGD00001 (REG.D3V)
ON(H) GND VIN
NR GND VOUT
C9017 0.1
C9016 6V47
D3V (DV)

TO PP9703
MAIN P.C.B.
(MAIN NET)
PS9003

	30
	29
	28
SBMTP	27
SBPTM	26
SCLK	25
	24
XMPREQ	23
XINTM	22
XINTP	21
BLIND OPEN(H)	20
D2.5V	19
MP 1.8V	18
	17
D3.3V	16
D3.3V	15
DGND	14
DGND	13
D2.5V	12
CC DATAI	11
XCC CS2	10
CC DATAO	9
CC SCLK	8
	7
CC FIELD	6
CC LN21	5
	4
	3
	2
DGND	1

LB9007 J0JHC0000032
LB9001 J0JHC0000032
LB9004 J0JHC0000032

FL9005 F1H0J1050018 — C9004 6V47
FL9012 F1H0J1050018 — C9005 6V47
FL9007 F1H0J1050018 — C9008 6V47

SBMTP (G)
SBPTM (G)
SCLK (G)
XMPREQ (G)
XINTM (G)
XINTP (G)
BLIND OPEN (H) (G)
MP D1.8V (MP)
D3.3V (AI)(EN)(AD)(S)(G)(DS)(DV)(MP)
D2.5V (DS)
S D1.8V (S)
DGND (AI)(EN)(AD)(S)(G)(DS)(DV)(MP)

IC9001 C0DBZFE00003 (REG.S D+1.8V)
C9019 6V10
VO VIN
NR GND ON(H)
C9015 0.1

CC DTI (G)
XCC CS2 (G)
CC DTO (G)
CC CLK (G)
CC FIELD (G)
CC LN21 (G)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Digital Net Section(Digital P.C.B.(1/9))
Schematic Diagram(DN)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

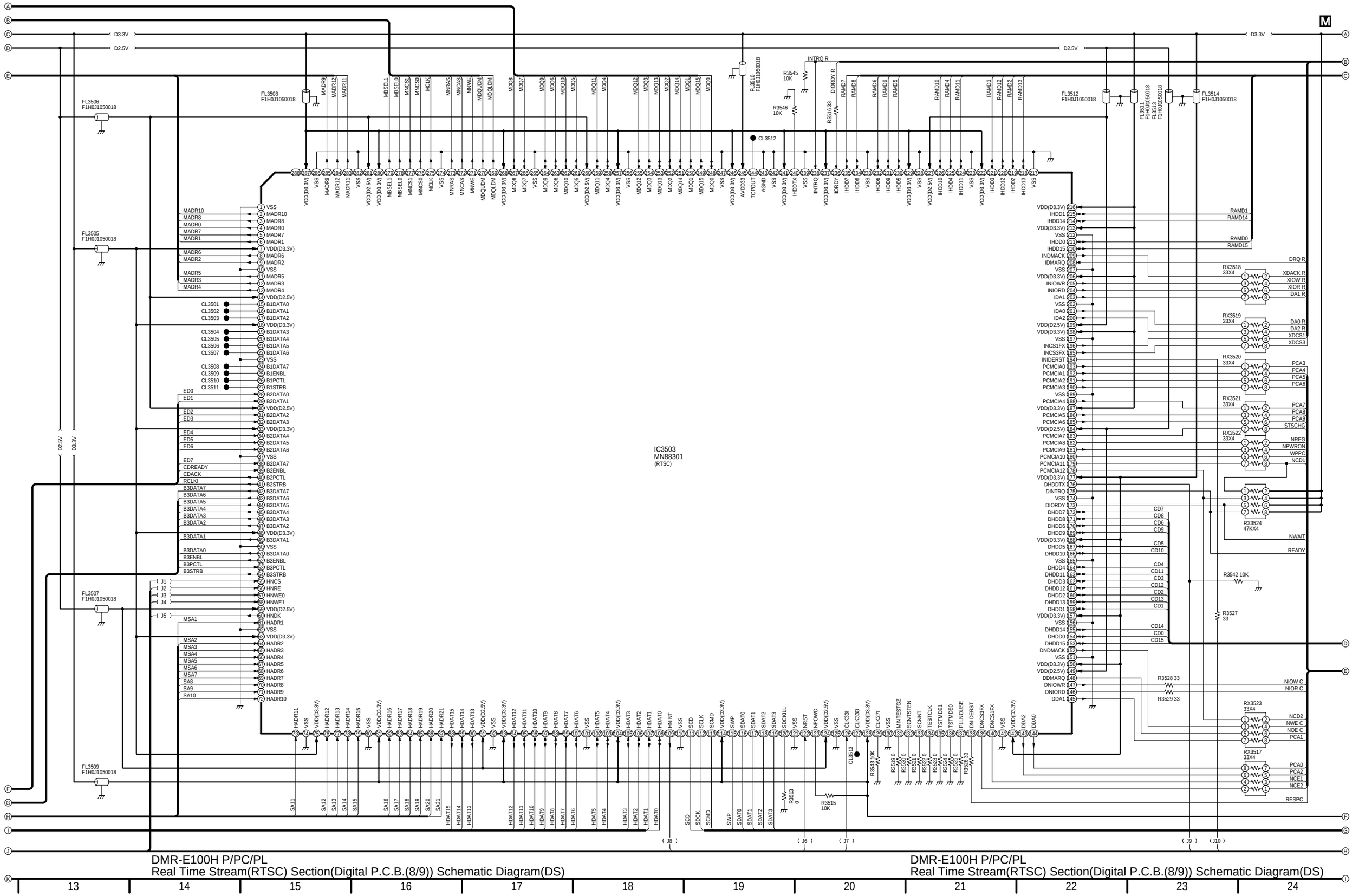
IC3501
C3ABQG000043
(16bit/128M SDRAM)

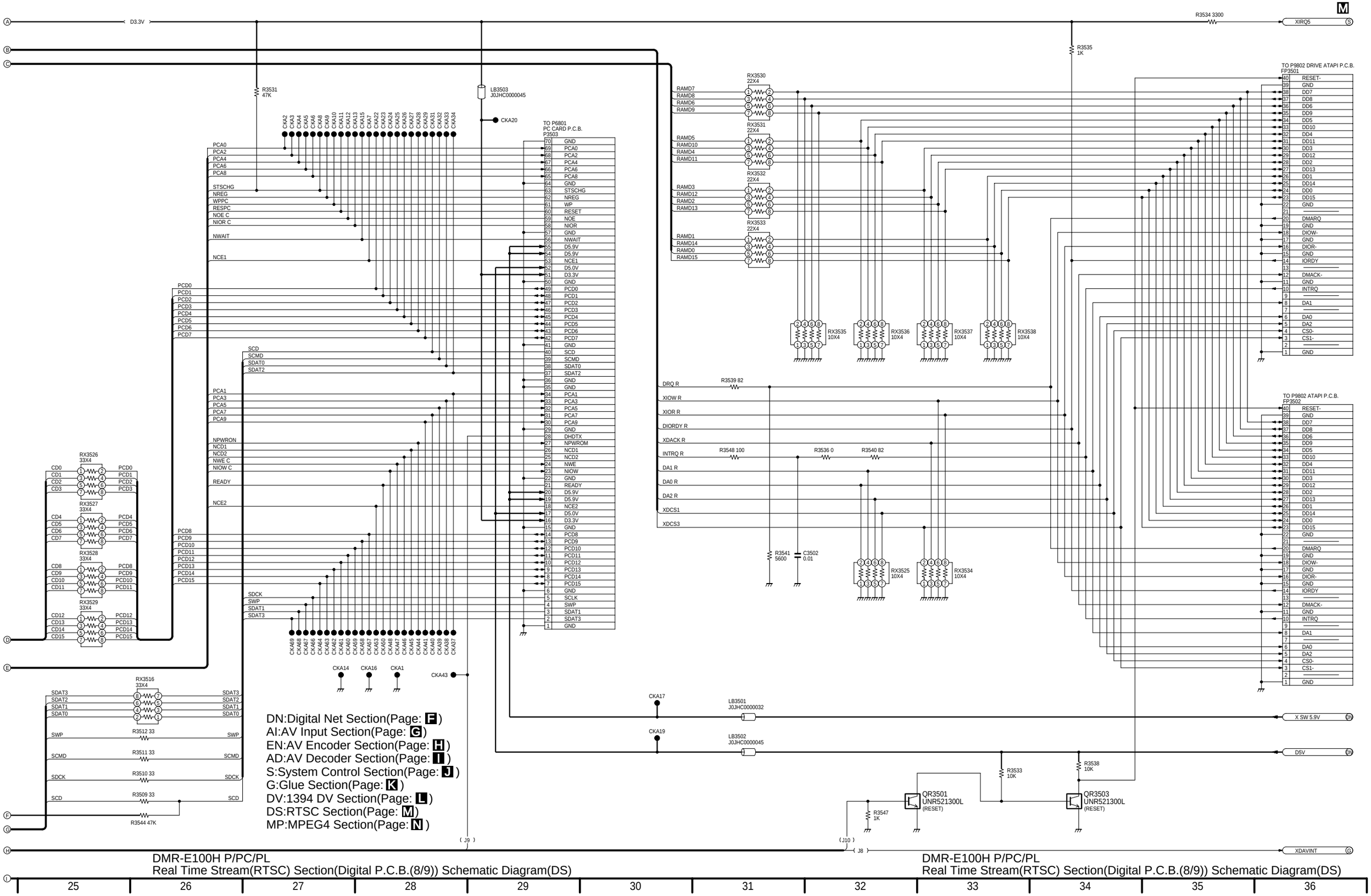
IC3502
C3ABQG000043
(16bit/128M SDRAM)

FL3503 F1H0J1050018
FL3501 F1H0J1050018
FL3504 F1H0J1050018
FL3502 F1H0J1050018

RX3503 22X4
RX3504 22X4
RX3508 33X4
RX3510 33X4
RX3512 33X4
RX3513 33X4
RX3515 33X4
RX3514 33X4
RX3511 33X4
RX3509 33X4
RX3507 22X4
RX3506 22X4
RX3505 22X4
RX3501 22X4
RX3502 22X4

R3504 33
R3505 33
R3506 33
R3514 33
R3517 33
R3507 22
R3508 22
R3503 22


IC3503
MN88301
(RTSC)
FL3506 F1H0J1050018
FL3508 F1H0J1050018
FL3505 F1H0J1050018
FL3507 F1H0J1050018
FL3509 F1H0J1050018
FL3510 F1H0J1050018
FL3512 F1H0J1050018
FL3511 F1H0J1050018
FL3513 F1H0J1050018
FL3514 F1H0J1050018
CL3512
R3545 10K
R3546 10K
R3516 33
INTRQ R
DIORDY R
R3542 10K
R3527 33
R3528 33
R3529 33
R3515 10K
R3513 0
R3543 10K
RX3518 33X4
RX3519 33X4
RX3520 33X4
RX3521 33X4
RX3522 33X4
RX3524 47KX4
RX3523 33X4
RX3517 33X4
D2.5V
D3.3V
DMR-E100H P/PC/PL
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)
DMR-E100H P/PC/PL
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

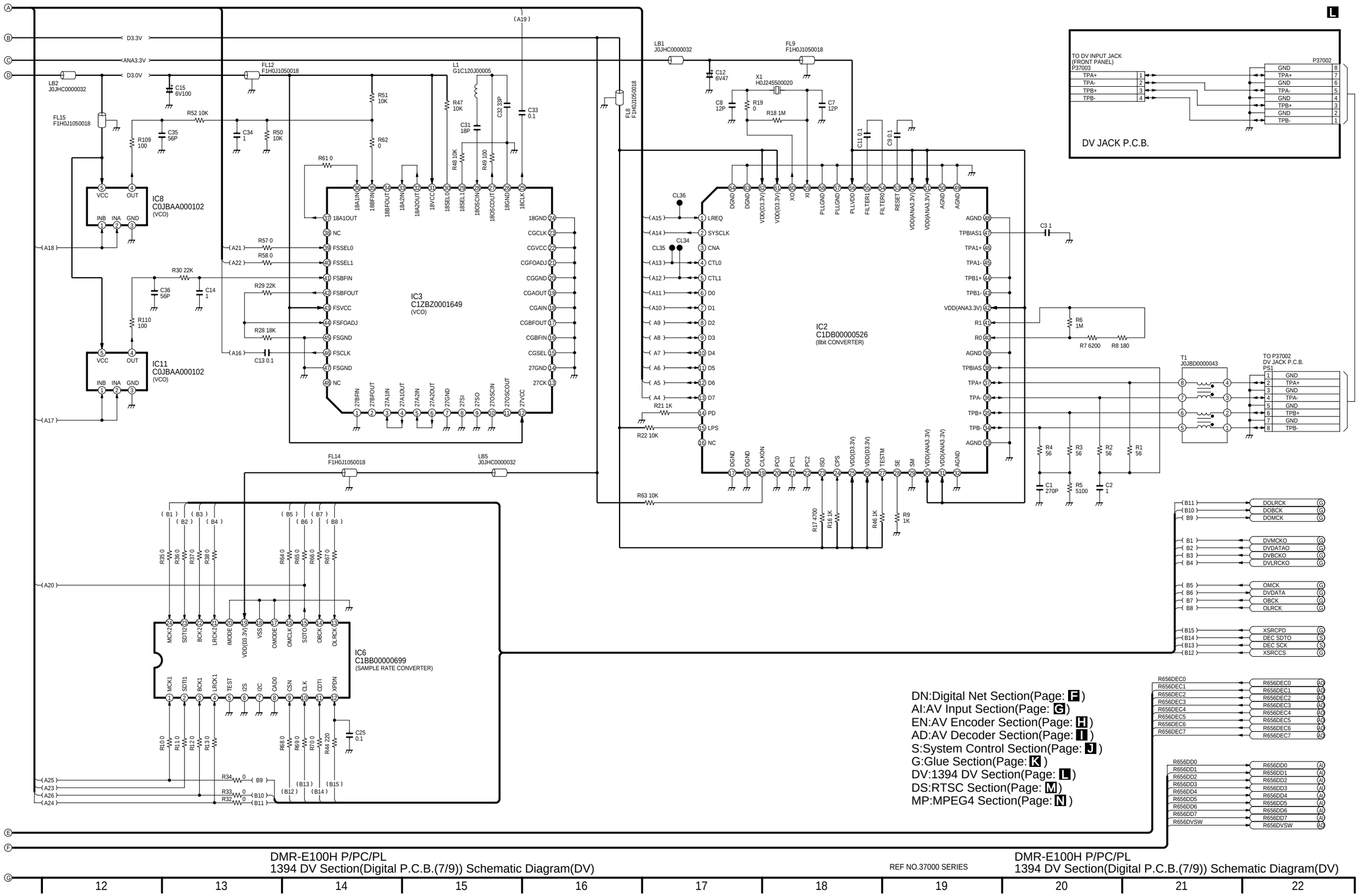


DMR-E100H P/PC/PL
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

IC1
MN673745
(DV CODEC)

DMR-E100H P/PC/PL
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)


L
TO DV INPUT JACK
(FRONT PANEL)
P37003
TPA+ 1
TPA- 2
TPB+ 3
TPB- 4
P37002
GND 8
TPA+ 7
GND 6
TPA- 5
GND 4
TPB+ 3
GND 2
TPB- 1
DV JACK P.C.B.
D3.3V
ANA3.3V
D3.0V
LB2 J0JHC0000032
C15 6V100
FL15 F1H0J1050018
R52 10K
R109 100
C35 56P
C34 1
R50 10K
FL12 F1H0J1050018
R51 10K
R62 0
L1 G1C120J00005
R47 10K
C31 18P
C32 33P
C33 0.1
R48 10K
R49 100
R61 0
IC8
C0JBAA000102
(VCO)
VCC OUT INB INA GND
IC11
C0JBAA000102
(VCO)
R30 22K
C36 56P
C14 1
R110 100
R57 0
R58 0
R29 22K
R28 18K
C13 0.1
IC3
C1ZBZ0001649
(VCO)
18A1OUT NC FSSEL0 FSSEL1 FSBFIN FSBFOUT FSVCC FSFOADJ FSGND FSCLK FSGND NC
18A1IN 18BFIN 18BFOUT 18A2IN 18A2OUT 18VCC 18SEL0 18SEL1 18OSCIN 18OSCOUT 18GND 18CLK
18GND CGCLK CGVCC CGFOADJ CGGND CGAOUT CGAIN CGBFOUT CGBFIN CGSEL 27GND 27CK
27BFIN 27BFOUT 27A1IN 27A1OUT 27A2IN 27A2OUT 27GND 27SI 27SO 27OSCIN 27OSCOUT 27VCC
FL14 F1H0J1050018
LB5 J0JHC0000032
FL8 F1H0J1050018
LB1 J0JHC0000032
FL9 F1H0J1050018
C12 6V47
X1 H0J245500020
C8 12P
R19 0
R18 1M
C7 12P
C11 0.1
C9 0.1
CL36
CL35
CL34
IC2
C1DB00000526
(8bit CONVERTER)
LREQ SYSCLK CNA CTL0 CTL1 D0 D1 D2 D3 D4 D5 D6 D7 PD LPS NC
DGND DGND VDD(D3.3V) VDD(D3.3V) XO XI PLLGND PLLGND PLLVDD FILTER1 FILTER0 RESET VDD(ANA3.3V) VDD(ANA3.3V) AGND AGND
AGND TPBIAS1 TPA1+ TPA1- TPB1+ TPB1- VDD(ANA3.3V) R1 R0 AGND TPBIAS TPA+ TPA- TPB+ TPB- AGND
DGND DGND CILKON PC0 PC1 PC2 ISO CPS VDD(D3.3V) VDD(D3.3V) TESTM SE SM VDD(ANA3.3V) VDD(ANA3.3V) AGND
R21 1K
R22 10K
R63 10K
R17 4700
R16 1K
R46 1K
R9 1K
C3 1
R6 1M
R7 6200
R8 180
R4 56
R3 56
R2 56
R1 56
C1 270P
R5 5100
C2 1
T1
J0JBD0000043
TO P37002
DV JACK P.C.B.
PS1
GND TPA+ GND TPA- GND TPB+ GND TPB-
IC6
C1BB00000699
(SAMPLE RATE CONVERTER)
MCK2 SDTI2 BCK2 LRCK2 IMODE VDD(D3.3V) VSS OMODE OMCLK SDTO OBCK OLRCK
MCK1 SDTI1 BCK1 LRCK1 TEST I2S I2C CAD0 CSN CLK CDTI XPDN
R35 0 R36 0 R37 0 R38 0
R64 0 R65 0 R66 0 R67 0
R10 0 R11 0 R12 0 R13 0
R68 0 R69 0 R70 0 R44 220
C25 0.1
R34 0
R33 0
R32 0
DOLRCK DOBCK DOMCK
DVMCKO DVDATAO DVBCKO DVLRCKO
OMCK DVDATA OBCK OLRCK
XSRCPD DEC SDTO DEC SCK XSRCCS
R656DEC0 R656DEC1 R656DEC2 R656DEC3 R656DEC4 R656DEC5 R656DEC6 R656DEC7
R656DD0 R656DD1 R656DD2 R656DD3 R656DD4 R656DD5 R656DD6 R656DD7 R656DVSW
DN:Digital Net Section(Page: F)
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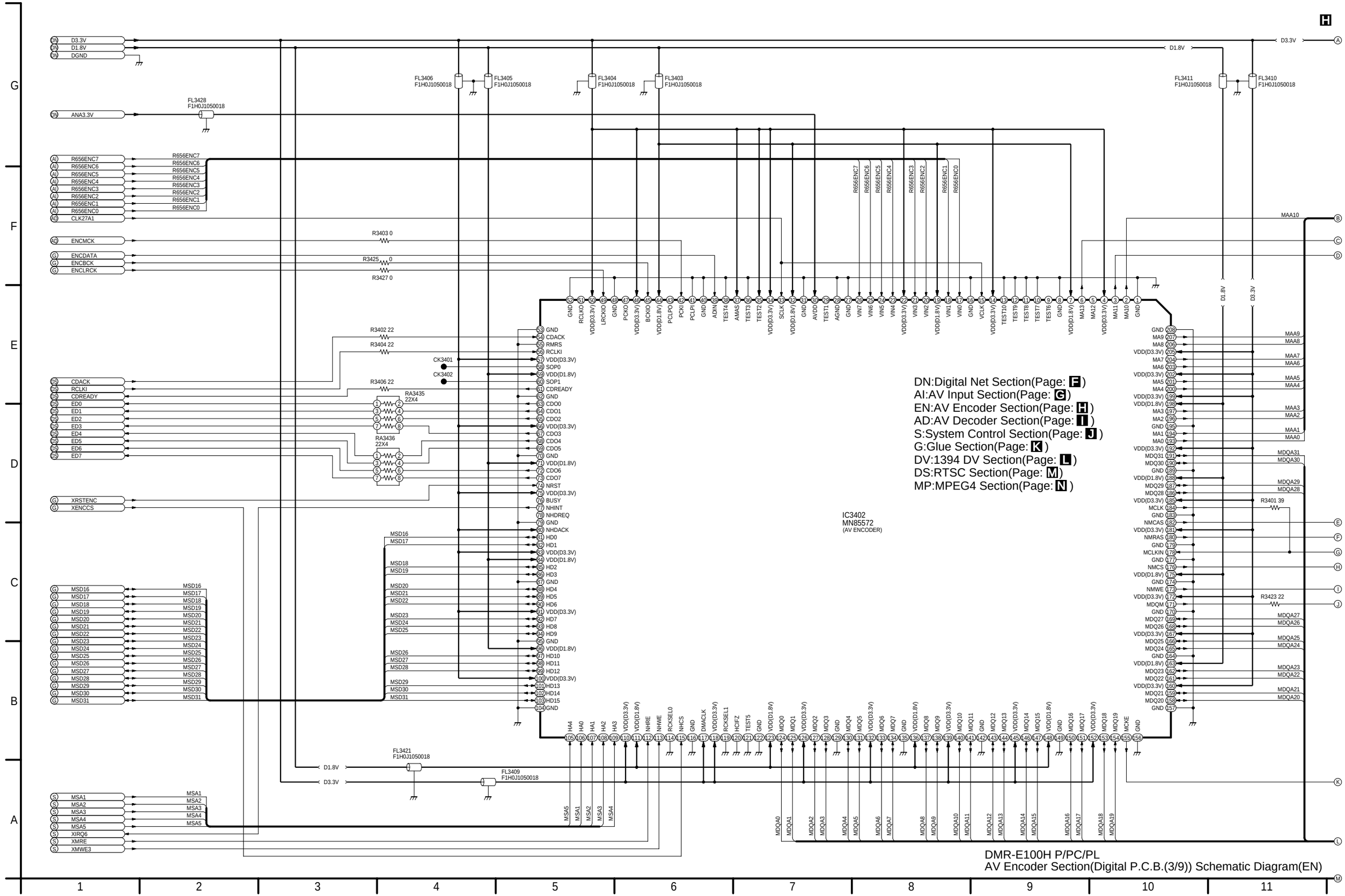
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)


DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
IC3402
MN85572
(AV ENCODER)
DMR-E100H P/PC/PL
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
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G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

D3.3V

RA3401 22X4 — MDQA15 MDQA14 MDQA13 MDQA12
RA3402 22X4 — MDQA11 MDQA10 MDQA9 MDQA8
RA3403 22X4 — MAA9 MAA8 MAA7 MAA6
RA3404 22X4 — MAA5 MAA4 MAA3
RA3405 22X4 — MDQA31 MDQA30 MDQA29 MDQA28
RA3406 22X4 — MDQA27 MDQA26 MDQA25 MDQA24

LB3402 J0JHC0000032
FL3402 F1H0J1050018

86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55
VSS	DQ15	VSSQ	DQ14	DQ13	VCCQ	DQ12	DQ11	VSSQ	DQ10	DQ9	VCCQ	DQ8	NC	VSS	DQM1	NC	NC	CLK	CKE	A9	A8	A7	A6	A5	A4	A3	DQM3	VSS	NC	DQ31	VCCQ

54	53	52	51	50	49	48	47	46	45	44	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DQ30	DQ29	VSSQ	DQ28	DQ27	VCCQ	DQ26	DQ25	VSSQ	DQ24	VSS	VCC	DQ0	VCCQ	DQ1	DQ2	VSSQ	DQ3	DQ4	VCCQ	DQ5	DQ6	VSSQ	DQ7	NC	VCC	DQM0	/WE	/CAS	/RAS	/CS	NC

22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
BA0	BA1	A10	A0	A1	A2	DQM2	VCC	NC	DQ16	VSSQ	DQ17	DQ18	VCCQ	DQ19	DQ20	VSSQ	DQ21	DQ22	VCCQ	DQ23	VCC	VSS	DQ15	VSSQ	DQ14	DQ13	VCCQ	DQ12	DQ11	VSSQ	DQ10

IC3401
C3ABPJ000018
(32bit/64M SDRAM)

LB3401 J0JHC0000032
FL3401 F1H0J1050018

R3415 22
R3416 22

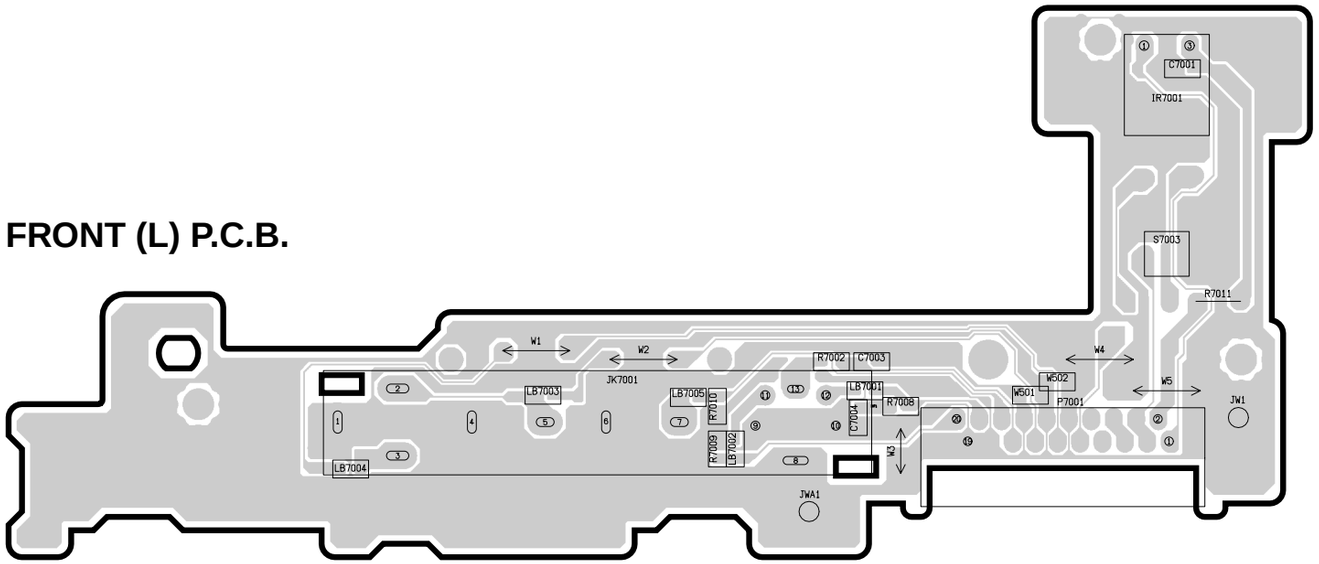
RA3407 22X4 — MDQA0 MDQA1 MDQA2 MDQA3
RA3408 22X4 — MDQA4 MDQA5 MDQA6 MDQA7
RA3412 22X4
RA3409 22X4 — MAA10 MAA0 MAA1 MAA2
RA3410 22X4 — MDQA16 MDQA17 MDQA18 MDQA19
RA3411 22X4 — MDQA20 MDQA21 MDQA22 MDQA23

DMR-E100H P/PC/PL
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

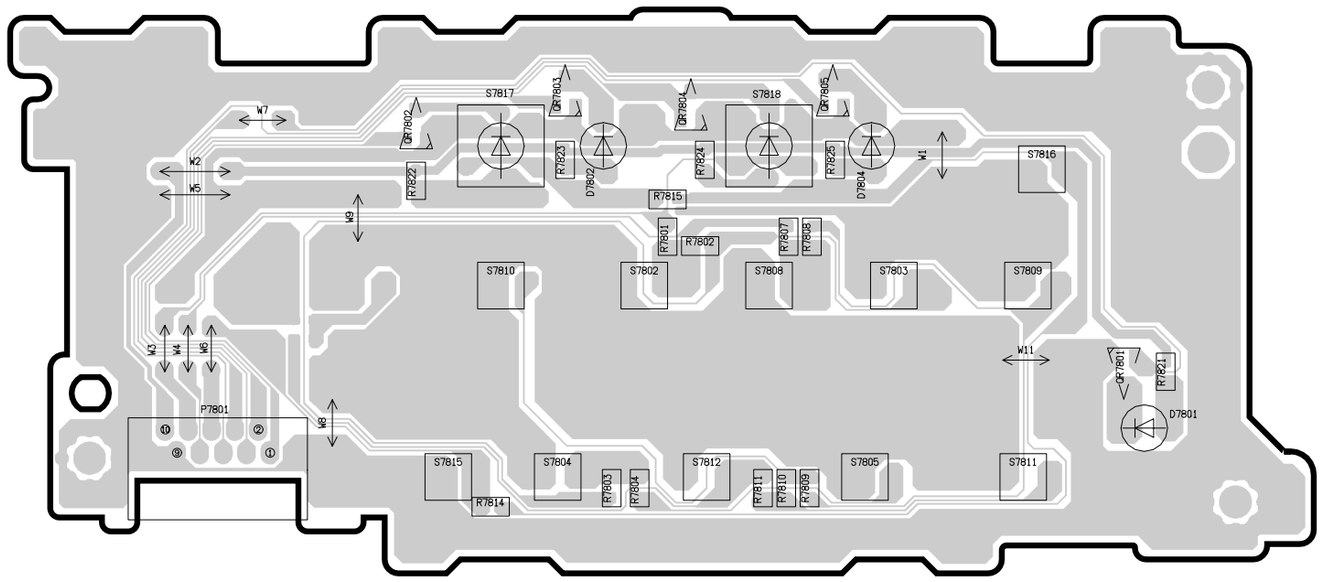
DMR-E100H P/PC/PL
AV Encoder Section(Digital P.C.B.(3/9))
Schematic Diagram(EN)

FRONT (L) P.C.B.

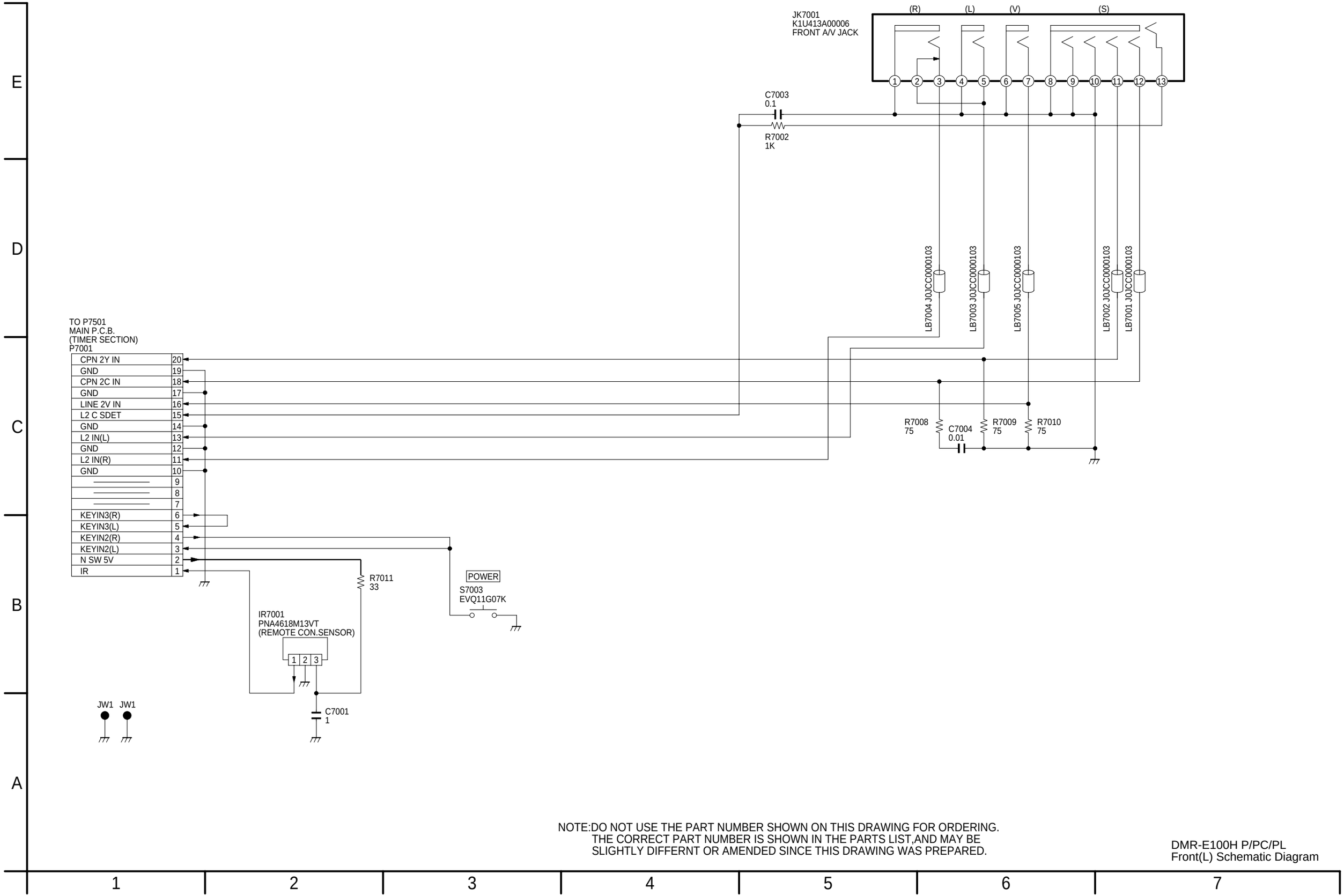


DMR-E100H P/PC/PL
FRONT (L) P.C.B.
(REP3598AB)

FRONT (R) P.C.B.



DMR-E100H P/PC/PL
FRONT (R) P.C.B.
(REP3598BA)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
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SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Front(L) Schematic Diagram

TO PS103
POWER SUPPLY P.C.B.
P7801

LED DVD Ⓗ	1
LED REC DVD Ⓗ	2
HDD LED Ⓗ	3
LED WARP ON Ⓗ	4
HDD REC LED Ⓗ	5
KEYIN1	6
KEYIN2	7
KEYIN3	8
GND	9
X SW 5.15V	10

< X SW 5.15V >

R7821
220

TIME-WARP
D7801
B3ABA0000396

QR7801
UNR221400L
(TIME-WARP LED DRIVE)

REC
S7802
EVQ11G07K
R7801
1200

CH-DOWN
S7803
EVQ11G07K
R7802
1500

SKIP-R
S7804
EVQ11G07K
R7803
2200

STOP
S7805
EVQ11G07K
R7804
3300

CH-UP
S7808
EVQ11G07K
R7807
1200

MODE
S7809
EVQ11G07K
R7808
1500

ERASE
S7810
EVQ11G07K
R7809
2200

TIME-WARP
S7811
EVQ11G07K
R7810
3300

PLAY
S7812
EVQ11G07K
R7811
5600

SKIP-F
S7815
EVQ11G07K

OPEN/CLOSE
S7816
EVQ11G07K
R7814
1200

R7815
1500

DVD
S7817
PNA4618M13VT

R7822
220

QR7802
UNR221400L
(DVD LED DRIVE)

R7823
220

DVD REC
D7802
LNJ201LPQJA

QR7803
UNR221400L
(DVD REC LED DRIVE)

HDD
S7818
K0H1BA000372

R7824
220

QR7804
UNR221400L
(HDD LED DRIVE)

R7825
220

HDD REC
D7804
LNJ201LPQJA

QR7805
UNR221400L
(HDD REC LED DRIVE)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Front(R) Schematic Diagram

E D C B A

1 2 3 4 5 6 7

IC6702
C0JBAB000474
(CLOCK OUT)

IC6701
C1ZBZ0002255
(GULE)
- Audio EE Delay
- MP3 Playback

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
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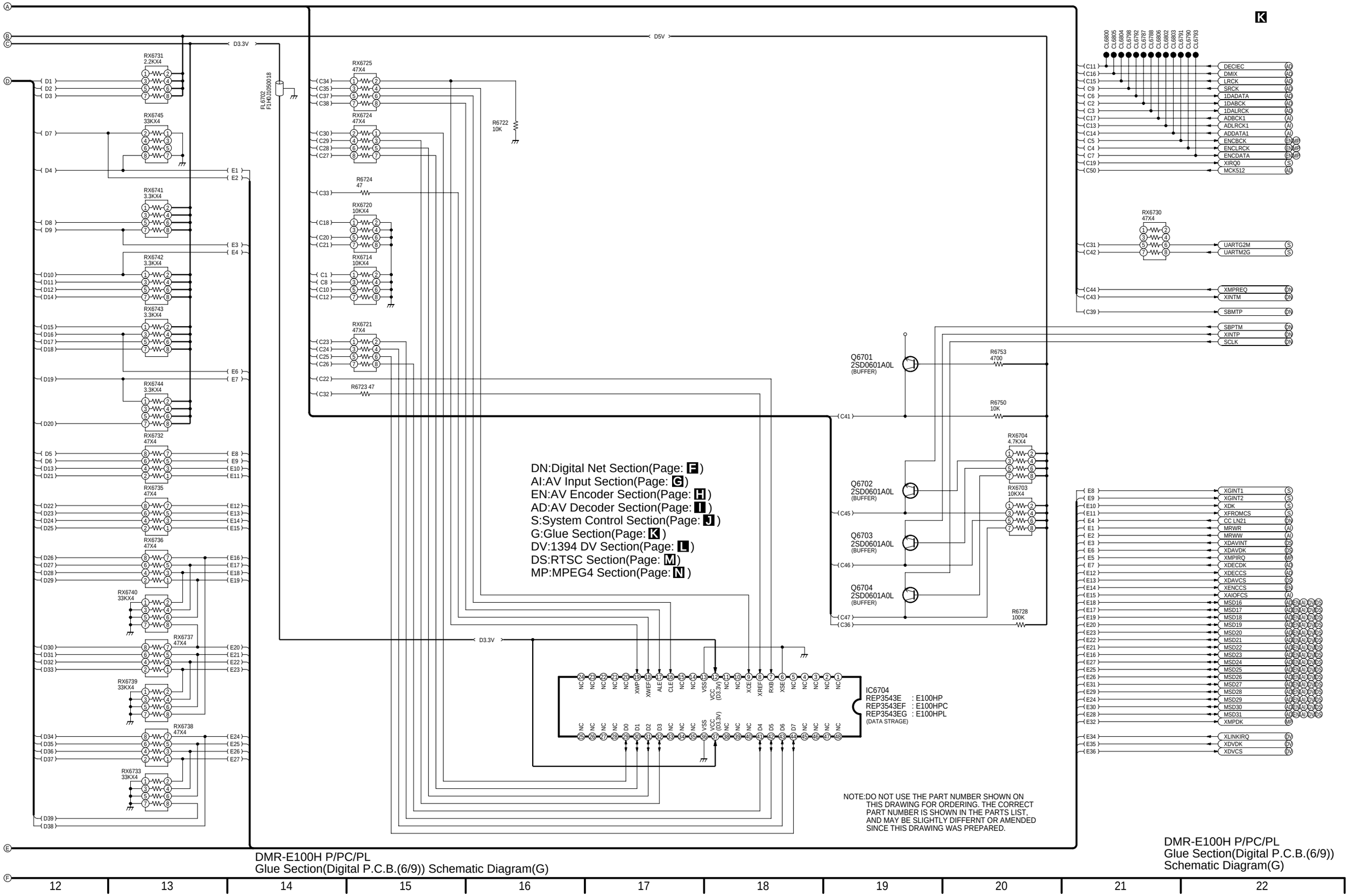
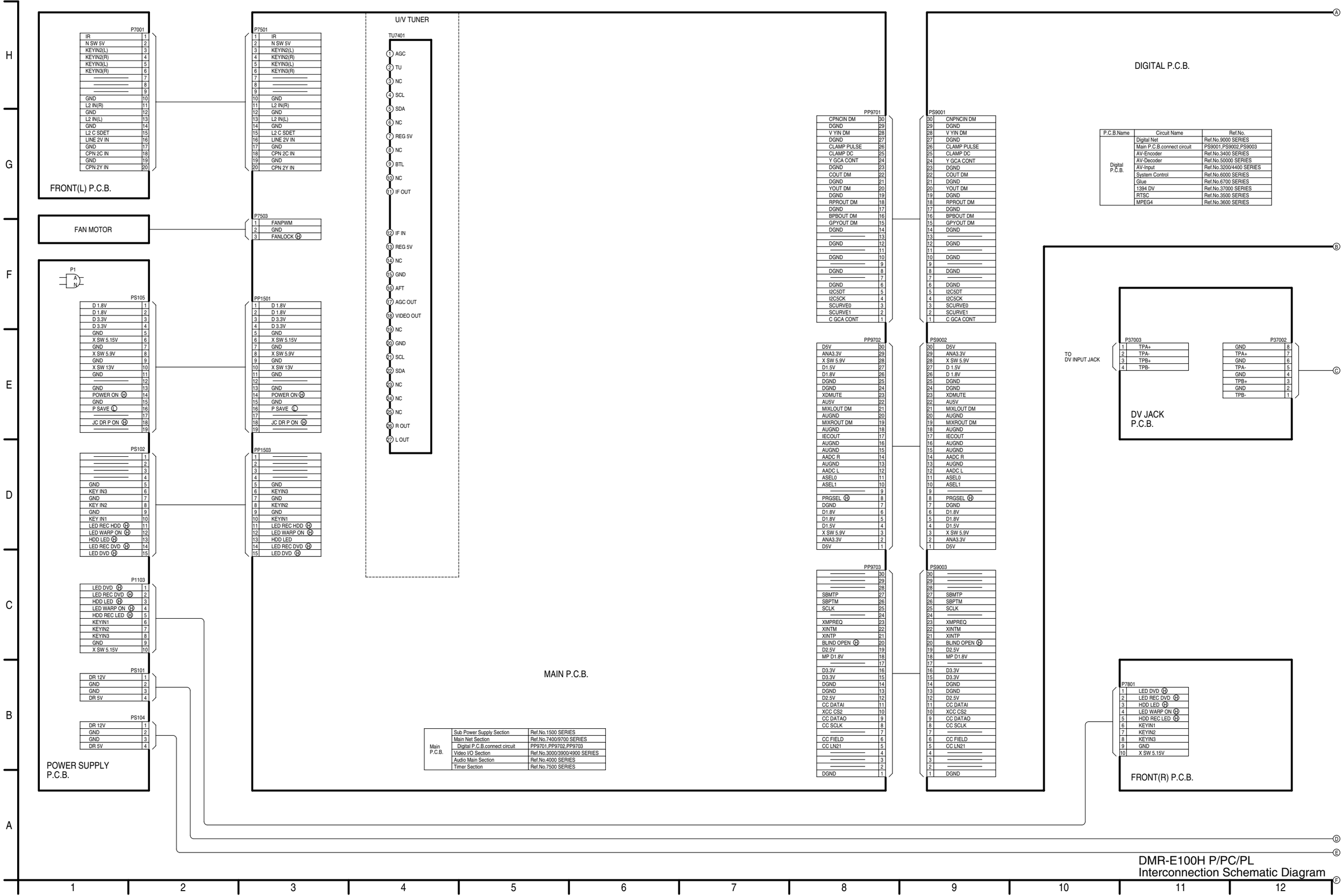
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

DMR-E100H P/PC/PL
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)



DMR-E100H P/PC/PL
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

DMR-E100H P/PC/PL
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)


FRONT(L) P.C.B.
P7001
IR 1
N SW 5V 2
KEYIN2(L) 3
KEYIN2(R) 4
KEYIN3(L) 5
KEYIN3(R) 6
GND 10
L2 IN(R) 11
GND 12
L2 IN(L) 13
GND 14
L2 C SDET 15
LINE 2V IN 16
GND 17
CPN 2C IN 18
GND 19
CPN 2Y IN 20
P7501
1 IR
2 N SW 5V
3 KEYIN2(L)
4 KEYIN2(R)
5 KEYIN3(L)
6 KEYIN3(R)
10 GND
11 L2 IN(R)
12 GND
13 L2 IN(L)
14 GND
15 L2 C SDET
16 LINE 2V IN
17 GND
18 CPN 2C IN
19 GND
20 CPN 2Y IN
U/V TUNER
TU7401
1 AGC
2 TU
3 NC
4 SCL
5 SDA
6 NC
7 REG 5V
8 NC
9 BTL
10 NC
11 IF OUT
12 IF IN
13 REG 5V
14 NC
15 GND
16 AFT
17 AGC OUT
18 VIDEO OUT
19 NC
20 GND
21 SCL
22 SDA
23 NC
24 NC
25 NC
26 R OUT
27 L OUT
FAN MOTOR
P7503
1 FANPWM
2 GND
3 FANLOCK H
P1
A
N
PS105
D 1.8V 1
D 1.8V 2
D 3.3V 3
D 3.3V 4
GND 5
X SW 5.15V 6
GND 7
X SW 5.9V 8
GND 9
X SW 13V 10
GND 11
GND 13
POWER ON H 14
GND 15
P SAVE L 16
JC DR P ON H 18
PP1501
1 D 1.8V
2 D 1.8V
3 D 3.3V
4 D 3.3V
5 GND
6 X SW 5.15V
7 GND
8 X SW 5.9V
9 GND
10 X SW 13V
11 GND
13 GND
14 POWER ON H
15 GND
16 P SAVE L
18 JC DR P ON H
PS102
GND 5
KEY IN3 6
GND 7
KEY IN2 8
GND 9
KEY IN1 10
LED REC HDD H 11
LED WARP ON H 12
HDD LED H 13
LED REC DVD H 14
LED DVD H 15
PP1503
5 GND
6 KEYIN3
7 GND
8 KEYIN2
9 GND
10 KEYIN1
11 LED REC HDD H
12 LED WARP ON H
13 HDD LED
14 LED REC DVD H
15 LED DVD H
P1103
LED DVD H 1
LED REC DVD H 2
HDD LED H 3
LED WARP ON H 4
HDD REC LED H 5
KEYIN1 6
KEYIN2 7
KEYIN3 8
GND 9
X SW 5.15V 10
PS101
DR 12V 1
GND 2
GND 3
DR 5V 4
PS104
DR 12V 1
GND 2
GND 3
DR 5V 4
POWER SUPPLY P.C.B.
MAIN P.C.B.
Main P.C.B.
Sub Power Supply Section Ref.No.1500 SERIES
Main Net Section Ref.No.7400/9700 SERIES
Digital P.C.B.connect circuit PP9701,PP9702,PP9703
Video I/O Section Ref.No.3000/3900/4900 SERIES
Audio Main Section Ref.No.4000 SERIES
Timer Section Ref.No.7500 SERIES
PP9701
CPNCIN DM 30
DGND 29
V YIN DM 28
DGND 27
CLAMP PULSE 26
CLAMP DC 25
Y GCA CONT 24
DGND 23
COUT DM 22
DGND 21
YOUT DM 20
DGND 19
RPROUT DM 18
DGND 17
BPBOUT DM 16
GPYOUT DM 15
DGND 14
DGND 12
DGND 10
DGND 8
DGND 6
I2C5DT 5
I2C5CK 4
SCURVE0 3
SCURVE1 2
C GCA CONT 1
PP9702
D5V 30
ANA3.3V 29
X SW 5.9V 28
D1.5V 27
D1.8V 26
DGND 25
DGND 24
XDMUTE 23
AU5V 22
MIXLOUT DM 21
AUGND 20
MIXROUT DM 19
AUGND 18
IECOUT 17
AUGND 16
AUGND 15
AADC R 14
AUGND 13
AADC L 12
ASEL0 11
ASEL1 10
PRGSEL H 8
DGND 7
D1.8V 6
D1.8V 5
D1.5V 4
X SW 5.9V 3
ANA3.3V 2
D5V 1
PP9703
SBMTP 27
SBPTM 26
SCLK 25
XMPREQ 23
XINTM 22
XINTP 21
BLIND OPEN H 20
D2.5V 19
MP D1.8V 18
D3.3V 16
D3.3V 15
DGND 14
DGND 13
D2.5V 12
CC DATAI 11
XCC CS2 10
CC DATAO 9
CC SCLK 8
CC FIELD 6
CC LN21 5
DGND 1
DIGITAL P.C.B.
PS9001
30 CNPNCIN DM
29 DGND
28 V YIN DM
27 DGND
26 CLAMP PULSE
25 CLAMP DC
24 Y GCA CONT
23 DGND
22 COUT DM
21 DGND
20 YOUT DM
19 DGND
18 RPROUT DM
17 DGND
16 BPBOUT DM
15 GPYOUT DM
14 DGND
12 DGND
10 DGND
8 DGND
6 DGND
5 I2C5DT
4 I2C5CK
3 SCURVE0
2 SCURVE1
1 C GCA CONT
PS9002
30 D5V
29 ANA3.3V
28 X SW 5.9V
27 D 1.5V
26 D 1.8V
25 DGND
24 DGND
23 XDMUTE
22 AU5V
21 MIXLOUT DM
20 AUGND
19 MIXROUT DM
18 AUGND
17 IECOUT
16 AUGND
15 AUGND
14 AADC R
13 AUGND
12 AADC L
11 ASEL0
10 ASEL1
8 PRGSEL H
7 DGND
6 D1.8V
5 D1.8V
4 D1.5V
3 X SW 5.9V
2 ANA3.3V
1 D5V
PS9003
30
29
28
27 SBMTP
26 SBPTM
25 SCLK
24
23 XMPREQ
22 XINTM
21 XINTP
20 BLIND OPEN H
19 D2.5V
18 MP D1.8V
17
16 D3.3V
15 D3.3V
14 DGND
13 DGND
12 D2.5V
11 CC DATAI
10 XCC CS2
9 CC DATAO
8 CC SCLK
6 CC FIELD
5 CC LN21
1 DGND
P.C.B.Name | Circuit Name | Ref.No.
Digital P.C.B. | Digital Net | Ref.No.9000 SERIES
Main P.C.B.connect circuit | PS9001,PS9002,PS9003
AV-Encoder | Ref.No.3400 SERIES
AV-Decoder | Ref.No.50000 SERIES
AV-Input | Ref.No.3200/4400 SERIES
System Control | Ref.No.6000 SERIES
Glue | Ref.No.6700 SERIES
1394 DV | Ref.No.37000 SERIES
RTSC | Ref.No.3500 SERIES
MPEG4 | Ref.No.3600 SERIES
TO DV INPUT JACK
P37003
1 TPA+
2 TPA-
3 TPB+
4 TPB-
P37002
GND 8
TPA+ 7
TPA- 6
GND 5
TPB+ 4
GND 3
TPB- 2
1
DV JACK P.C.B.
P7801
1 LED DVD H
2 LED REC DVD H
3 HDD LED H
4 LED WARP ON H
5 HDD REC LED H
6 KEYIN1
7 KEYIN2
8 KEYIN3
9 GND
10 X SW 5.15V
FRONT(R) P.C.B.
A
B
C
D
E
F
1 2 3 4 5 6 7 8 9 10 11 12
DMR-E100H P/PC/PL
Interconnection Schematic Diagram

DIGITAL P.C.B.

FP3501

RESET-	40	40
GND	39	39
DD7	38	38
DD8	37	37
DD6	36	36
DD9	35	35
DD5	34	34
DD10	33	33
DD4	32	32
DD11	31	31
DD3	30	30
DD12	29	29
DD2	28	28
DD13	27	27
DD1	26	26
DD14	25	25
DD0	24	24
DD15	23	23
GND	22	22
———	21	21
DMARQ	20	20
GND	19	19
DIOW-	18	18
GND	17	17
DIOR-	16	16
GND	15	15
IORDY	14	14
———	13	13
DMACK-	12	12
GND	11	11
INTRQ	10	10
———	9	9
DA1	8	8
———	7	7
DA0	6	6
DA2	5	5
CS0-	4	4
CS1-	3	3
———	2	2
GND	1	1

PS37001

1	GND	1
2	TPA+	2
3	GND	3
4	TPA-	4
5	GND	5
6	TPB+	6
7	GND	7
8	TPB-	8

P9802

40	RESET-	40
39	GND	39
38	DD7	38
37	DD8	37
36	DD6	36
35	DD9	35
34	DD5	34
33	DD10	33
32	DD4	32
31	DD11	31
30	DD3	30
29	DD12	29
28	DD2	28
27	DD13	27
26	DD1	26
25	DD14	25
24	DD0	24
23	DD15	23
22	GND	22
21	———	21
20	DMARQ	20
19	GND	19
18	DIOW-	18
17	GND	17
16	DIOR-	16
15	GND	15
14	IORDY	14
13	———	13
12	DMACK-	12
11	GND	11
10	INTRQ	10
9	———	9
8	DA1	8
7	———	7
6	DA0	6
5	DA2	5
4	CS0-	4
3	CS1-	3
2	———	2
1	GND	1

P9801

———	44	44
———	43	43
GND	42	42
———	41	41
DA1-	40	40
DA0-	39	39
DA2	38	38
DA0	37	37
———	36	36
DA1	35	35
———	34	34
INTRQ	33	33
GND	32	32
DMACK-	31	31
———	30	30
IORDY	29	29
GND	28	28
DIOR-	27	27
GND	26	26
DIOW-	25	25
GND	24	24
DMARQ	23	23
———	22	22
GND	21	21
DD15	20	20
DD0	19	19
DD14	18	18
DD1	17	17
DD13	16	16
DD2	15	15
DD12	14	14
DD3	13	13
DD11	12	12
DD4	11	11
DD10	10	10
DD5	9	9
DD9	8	8
DD6	7	7
DD8	6	6
DD7	5	5
GND	4	4
RESET-	3	3
———	2	2
———	1	1

DRIVE ATAPI P.C.B.

1	GND	1
2	DASP-NC	2
3	DA1-	3
4	DA0-	4
5	DA2	5
6	DA0	6
7	PDIAG-(C)	7
8	DA1	8
9	RESERVED	9
10	INTRQ	10
11	GND	11
12	DMACK-	12
13	GND	13
14	IORDY	14
15	GND	15
16	DIOR-	16
17	GND	17
18	DIOW-	18
19	GND	19
20	———	20
21	KEY PIN	21
22	GND	22
23	DD15	23
24	DD0	24
25	DD14	25
26	DD1	26
27	DD13	27
28	DD2	28
29	DD12	29
30	DD3	30
31	DD11	31
32	DD4	32
33	DD10	33
34	DD5	34
35	DD9	35
36	DD6	36
37	DD8	37
38	DD7	38
39	GND	39
40	RESET-	40

RAM DRIVE

5V	1	1
GND	2	2
GND	3	3
12V	4	4

FP3502

RESET-	40	40
GND	39	39
DD7	38	38
DD8	37	37
DD6	36	36
DD9	35	35
DD5	34	34
DD10	33	33
DD4	32	32
DD11	31	31
DD3	30	30
DD12	29	29
DD2	28	28
DD13	27	27
DD1	26	26
DD14	25	25
DD0	24	24
DD15	23	23
GND	22	22
———	21	21
DMARQ	20	20
GND	19	19
DIOW-	18	18
GND	17	17
DIOR-	16	16
GND	15	15
IORDY	14	14
———	13	13
DMACK-	12	12
GND	11	11
INTRQ	10	10
———	9	9
DA1	8	8
———	7	7
DA0	6	6
DA2	5	5
CS0-	4	4
CS1-	3	3
———	2	2
GND	1	1

P9802

1	RESET-	1
2	GND	2
3	DD7	3
4	DD8	4
5	DD6	5
6	DD9	6
7	DD5	7
8	DD10	8
9	DD4	9
10	DD11	10
11	DD3	11
12	DD12	12
13	DD2	13
14	DD13	14
15	DD1	15
16	DD14	16
17	DD0	17
18	DD15	18
19	GND	19
20	———	20
21	DMARQ	21
22	GND	22
23	DIOW-	23
24	GND	24
25	DIOR-	25
26	GND	26
27	IORDY	27
28	———	28
29	DMACK-	29
30	GND	30
31	INTRQ	31
32	RESERVED	32
33	DA1	33
34	———	34
35	DA0	35
36	DA2	36
37	CS0-	37
38	———	38
39	DASP	39
40	GND	40

P9801

———	1	1
———	2	2
RESET-	3	3
GND	4	4
DD7	5	5
DD8	6	6
DD6	7	7
DD9	8	8
DD5	9	9
DD10	10	10
DD4	11	11
DD11	12	12
DD3	13	13
DD12	14	14
DD2	15	15
DD13	16	16
DD1	17	17
DD14	18	18
DD0	19	19
DD15	20	20
GND	21	21
———	22	22
DMARQ	23	23
GND	24	24
DIOW-	25	25
GND	26	26
DIOR-	27	27
GND	28	28
IORDY	29	29
GND	30	30
DMACK-	31	31
GND	32	32
INTRQ	33	33
———	34	34
DA1	35	35
———	36	36
DA0	37	37
DA2	38	38
DA0-	39	39
———	40	40
DASP	41	41
GND	42	42
———	43	43
———	44	44

ATAPI P.C.B.

40	RESET-	40
39	GND	39
38	DD7	38
37	DD8	37
36	DD6	36
35	DD9	35
34	DD5	34
33	DD10	33
32	DD4	32
31	DD11	31
30	DD3	30
29	DD12	29
28	DD2	28
27	DD13	27
26	DD1	26
25	DD14	25
24	DD0	24
23	DD15	23
22	GND	22
21	KEY PIN	21
20	DMARQ	20
19	GND	19
18	DIOW-	18
17	GND	17
16	DIOR-	16
15	GND	15
14	IORDY	14
13	GND	13
12	DMACK-	12
11	GND	11
10	INTRQ	10
9	RESERVED	9
8	DA1	8
7	PDIAG	7
6	DA0	6
5	DA2	5
4	DA0-	4
3	DA1-	3
2	DASP	2
1	GND	1

HDD DRIVE

5V	1	1
GND	2	2
GND	3	3
12V	4	4

P3503

GND	1	1
SDAT3	2	2
SDAT1	3	3
SWP	4	4
SCLK	5	5
GND	6	6
PCD15	7	7
PCD14	8	8
PCD13	9	9
PCD12	10	10
PCD11	11	11
PCD10	12	12
PCD9	13	13
PCD8	14	14
GND	15	15
D3.3V	16	16
D5.0V	17	17
NCE2	18	18
D5.9V	19	19
D5.9V	20	20
READY	21	21
GND	22	22
NIOW	23	23
NWE	24	24
NCD2	25	25
NCD1	26	26
NPWROM	27	27
DHDTX	28	28
GND	29	29
PCA9	30	30
PCA7	31	31
PCA5	32	32
PCA3	33	33
PCA1	34	34
GND	35	35
GND	36	36
SDAT2	37	37
SDAT0	38	38
SCMD	39	39
SCD	40	40
GND	41	41
PCD7	42	42
PCD6	43	43
PCD5	44	44
PCD4	45	45
PCD3	46	46
PCD2	47	47
PCD1	48	48
PCD0	49	49
GND	50	50
D3.3V	51	51
D5.0V	52	52
NCE1	53	53
D5.9V	54	54
D5.9V	55	55
NWAIT	56	56
GND	57	57
NIOR	58	58
NOE	59	59
RESET	60	60
WP	61	61
NREG	62	62
STSCHG	63	63
GND	64	64
PCA8	65	65
PCA6	66	66
PCA4	67	67
PCA2	68	68
PCA0	69	69
GND	70	70

P6801

1	GND	1
2	SDAT3	2
3	SDAT1	3
4	SWP	4
5	SCLK	5
6	GND	6
7	PCD15	7
8	PCD14	8
9	PCD13	9
10	PCD12	10
11	PCD11	11
12	PCD10	12
13	PCD9	13
14	PCD8	14
15	GND	15
16	D3.3V	16
17	D5.0V	17
18	NCE2	18
19	D5.9V	19
20	D5.9V	20
21	READY	21
22	GND	22
23	NIOW	23
24	NWE	24
25	NCD2	25
26	NCD1	26
27	NPWROM	27
28	DHDTX	28
29	GND	29
30	PCA9	30
31	PCA7	31
32	PCA5	32
33	PCA3	33
34	PCA1	34
35	GND	35
36	GND	36
37	SDAT2	37
38	SDAT0	38
39	SCMD	39
40	SCD	40
41	GND	41
42	PCD7	42
43	PCD6	43
44	PCD5	44
45	PCD4	45
46	PCD3	46
47	PCD2	47
48	PCD1	48
49	PCD0	49
50	GND	50
51	D3.3V	51
52	D5.0V	52
53	NCE1	53
54	D5.9V	54
55	D5.9V	55
56	NWAIT	56
57	GND	57
58	NIOR	58
59	NOE	59
60	RESET	60
61	WP	61
62	NREG	62
63	STSCHG	63
64	GND	64
65	PCA8	65
66	PCA6	66
67	PCA4	67
68	PCA2	68
69	PCA0	69
70	GND	70

P6802

GND	1	1
D3	2	2
D4	3	3
D5	4	4
D6	5	5
D7	6	6
XCE1	7	7
A10	8	8
XOE	9	9
A11	10	10
A9	11	11
A8	12	12
A13	13	13
A14	14	14
XWE	15	15
READY	16	16
VCC	17	17
CPP	18	18
A16	19	19
A15	20	20
A12	21	21
A7	22	22
A6	23	23
A5	24	24
A4	25	25
A3	26	26
A2	27	27
A1	28	28
A0	29	29
D0	30	30
D1	31	31
D2	32	32
WP	33	33
GND	34	34
GND	35	35
XCD1	36	36
D11	37	37
D12	38	38
D13	39	39
D14	40	40
D15	41	41
XCE2	42	42
XVS1	43	43
XIOR	44	44
XIOW	45	45
A17	46	46
A18	47	47
A19	48	48
A20	49	49
A21	50	50
VCC	51	51
VPP	52	52
A22	53	53
A23	54	54
A24	55	55
A25	56	56
XVS2	57	57
RESET	58	58
XWAIT	59	59
RFU	60	60
XREG	61	61
BVD2	62	62
XSTCG	63	63
D8	64	64
D9	65	65
D10	66	66
XCD2	67	67
GND	68	68

TO
PC CARD

P6803

DAT3	1	1
CMD	2	2
GND	3	3
3.3V	4	4
CLK	5	5
GND	6	6
DAT0	7	7
DAT1	8	8
DAT2	9	9
WP	10	10
CD	11	11
COM	12	12
FG	13	13

TO
SD CARD

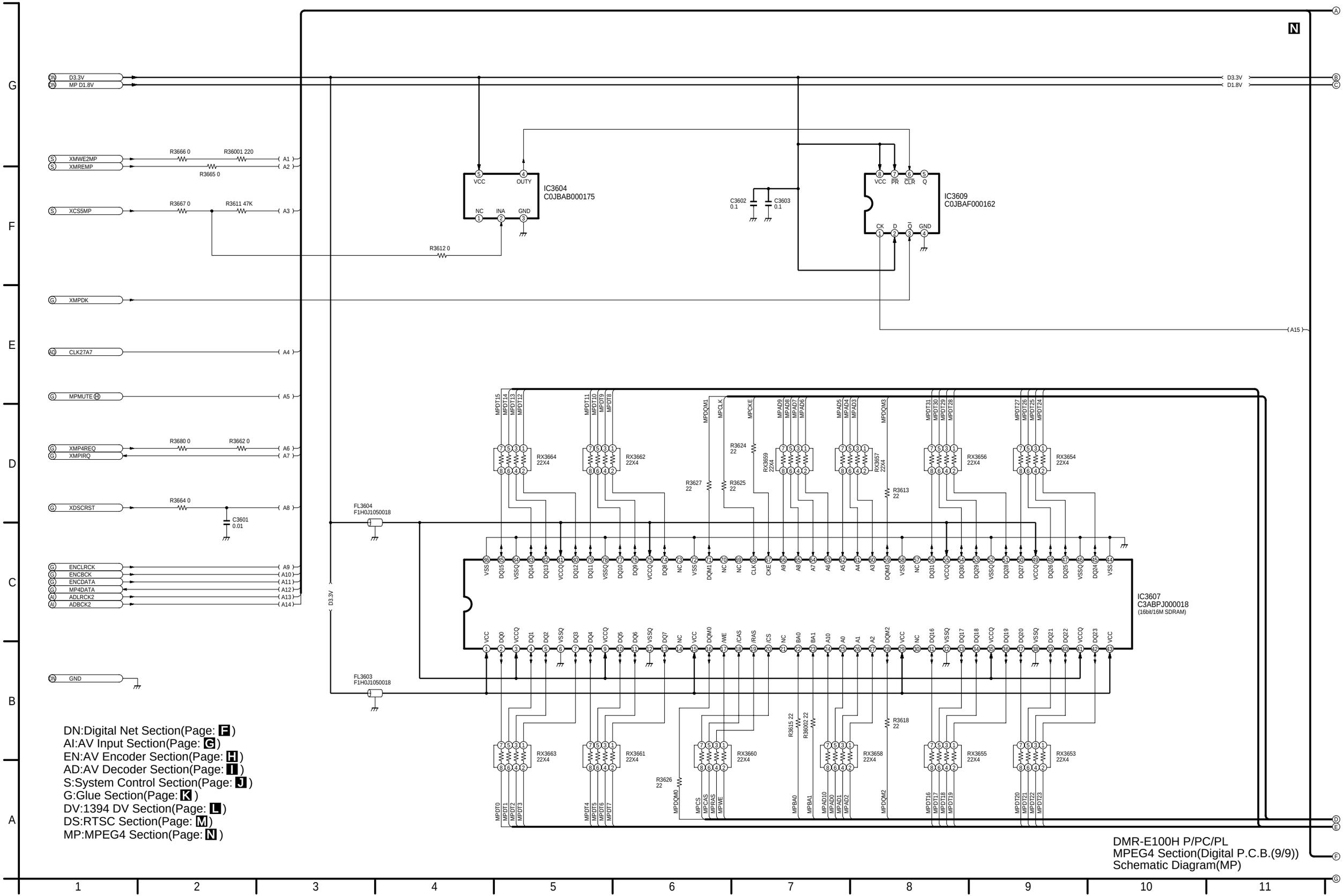
DIGITAL P.C.B.

SD & PC CARD P.C.B.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Interconnection Schematic Diagram

DMR-E100H P/PC/PL
Interconnection Schematic Diagram


D3.3V
MP D1.8V
XMWE2MP
XMREMP
XCS5MP
XMPDK
CLK27A7
MPMUTE
XMP4REQ
XMPIRQ
XDSCRST
ENCLRCK
ENCBCK
ENCDATA
MP4DATA
ADLRCK2
ADBCK2
GND
R3666 0
R36001 220
R3665 0
R3667 0
R3611 47K
R3680 0
R3662 0
R3664 0
C3601 0.01
R3612 0
IC3604
C0JBAB000175
VCC
OUTY
NC
INA
GND
C3602 0.1
C3603 0.1
IC3609
C0JBAF000162
CK
D
Q
GND
A15
FL3604
F1H0J1050018
FL3603
F1H0J1050018
D3.3V
IC3607
C3ABPJ000018
(16bit/16M SDRAM)
RX3664 22X4
RX3662 22X4
RX3659 22X4
RX3657 22X4
RX3656 22X4
RX3654 22X4
RX3663 22X4
RX3661 22X4
RX3660 22X4
RX3658 22X4
RX3655 22X4
RX3653 22X4
R3624 22
R3627 22
R3625 22
R3613 22
R3615 22
R36002 22
R3618 22
R3626 22
MPDT15
MPDT14
MPDT13
MPDT12
MPDT11
MPDT10
MPDT9
MPDT8
MPDQM1
MPCLK
MPCKE
MPAD9
MPAD8
MPAD7
MPAD6
MPAD5
MPAD4
MPAD3
MPDQM3
MPDT31
MPDT30
MPDT29
MPDT28
MPDT27
MPDT26
MPDT25
MPDT24
MPDT0
MPDT1
MPDT2
MPDT3
MPDT4
MPDT5
MPDT6
MPDT7
MPDQM0
MPCS
MPCAS
MPRAS
MPWE
MPBA0
MPBA1
MPAD10
MPAD0
MPAD1
MPAD2
MPDQM2
MPDT16
MPDT17
MPDT18
MPDT19
MPDT20
MPDT21
MPDT22
MPDT23
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
DMR-E100H P/PC/PL
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

IC3608
C0ZBZ0000720
(MPEG4 CODEC)

DMR-E100H P/PC/PL MPEG4 Section(Digital P.C.B.(9/9)) Schematic Diagram(MP)

DMR-E100H P/PC/PL
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)

G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

D3.3V

RX3615 47KX4: GIO0 GIO1 GIO2 GIO3 — CL3607 CL3608 CL3654
RX3620 47KX4: GIO4 GIO5 GIO6 GIO7 — CL3609 CL3610 CL3611
RX3616 47KX4: GIO8 GIO9 GIO10 GIO11 — CL3612 CL3613 CL3614 CL3615
RX3617 47KX4: GIO12 GIO13 GIO14 GIO15 — CL3616 CL3617 CL3618 CL3619
RX3621 47KX4: GIO16 GIO17 GIO18 GIO19 — CL3620 CL3621 CL3622 CL3623
RX3618 47KX4: GIO20 GIO21 GIO22 GIO23 — CL3624 CL3625 CL3626 CL3627
RX3622 47KX4: GIO24 GIO25 GIO26 GIO27 — CL3628 CL3629 CL3655 CL3630
RX3619 47KX4: GIO28 GIO29 GIO30 GIO31 — CL3631 CL3632 CL3633 CL3634

RX3614 D1H8R0040009 / RX3639 D1H8R0040009: ARM A0 MSA1, ARM A1 MSA2, ARM A2 MSA3, ARM A3 MSA4
RX3613 D1H8R0040009 / RX3642 D1H8R0040009: ARM A4 MSA5, ARM A5 MSA6, ARM A6 MSA7, ARM A7 SA8
RX3612 D1H8R0040009 / RX3644 D1H8R0040009: ARM A8 SA9, ARM A9 SA10, ARM A10 SA11, ARM A11 SA12
RX3611 D1H8R0040009 / RX3646 D1H8R0040009: ARM A12 SA13, ARM A13 SA14, ARM A14 SA15, ARM A15 SA16
RX3610 D1H8R0040009 / RX3648 D1H8R0040009: ARM A16 SA17, ARM A17 SA18, ARM A18 SA19, ARM A19 SA20
RX3609 D1H8R0040009 / RX3652 D1H8R0040009: ARM A20 SA21, ARM A21 SA22, ARM A22 SA23

RX3608 33X4 / RX3643 D1H8R0040009: ARM D0 SD16, ARM D1 SD17, ARM D2 SD18, ARM D3 SD19
RX3607 33X4 / RX3645 D1H8R0040009: ARM D4 SD20, ARM D5 SD21, ARM D6 SD22, ARM D7 SD23
RX3605 33X4 / RX3647 D1H8R0040009: ARM D8 SD24, ARM D9 SD25, ARM D10 SD26, ARM D11 SD27
RX3603 33X4 / RX3649 D1H8R0040009: ARM D12 SD28, ARM D13 SD29, ARM D14 SD30, ARM D15 SD31

RX3606 D1H8R0040009: C DATA4 C DATA5 C DATA6 C DATA7
RX3604 D1H8R0040009: C DATA8 C DATA9 C DATA10 C DATA11
RX3650 D1H8R0040009 / RX3651 D1H8R0040009

R656DDCK
R656ENC0 R656ENC1 R656ENC2 R656ENC3 R656ENC4 R656ENC5 R656ENC6 R656ENC7
R656MP0 R656MP1 R656MP2 R656MP3 R656MP4 R656MP5 R656MP6 R656MP7

FL3614 F1H0J1050018

IC3603 C0JBAZ001776 (BUFFER)
/OEI I0 I1 I2 I3 I4 I5 I6 I7 GND
VCC OE2 O0 O1 O2 O3 O4 O5 O6 O7

RX3601 22X4: LCD DO0 LCD DO1 LCD DO2 LCD DO3
RX3602 22X4: LCD DO4 LCD DO5 LCD DO6 LCD DO7

R3601 0 — XSW656
RX3631 D1H8R0040009: R656DD0 R656DD1 R656DD2 R656DD3
RX3632 D1H8R0040009: R656DD4 R656DD5 R656DD6 R656DD7

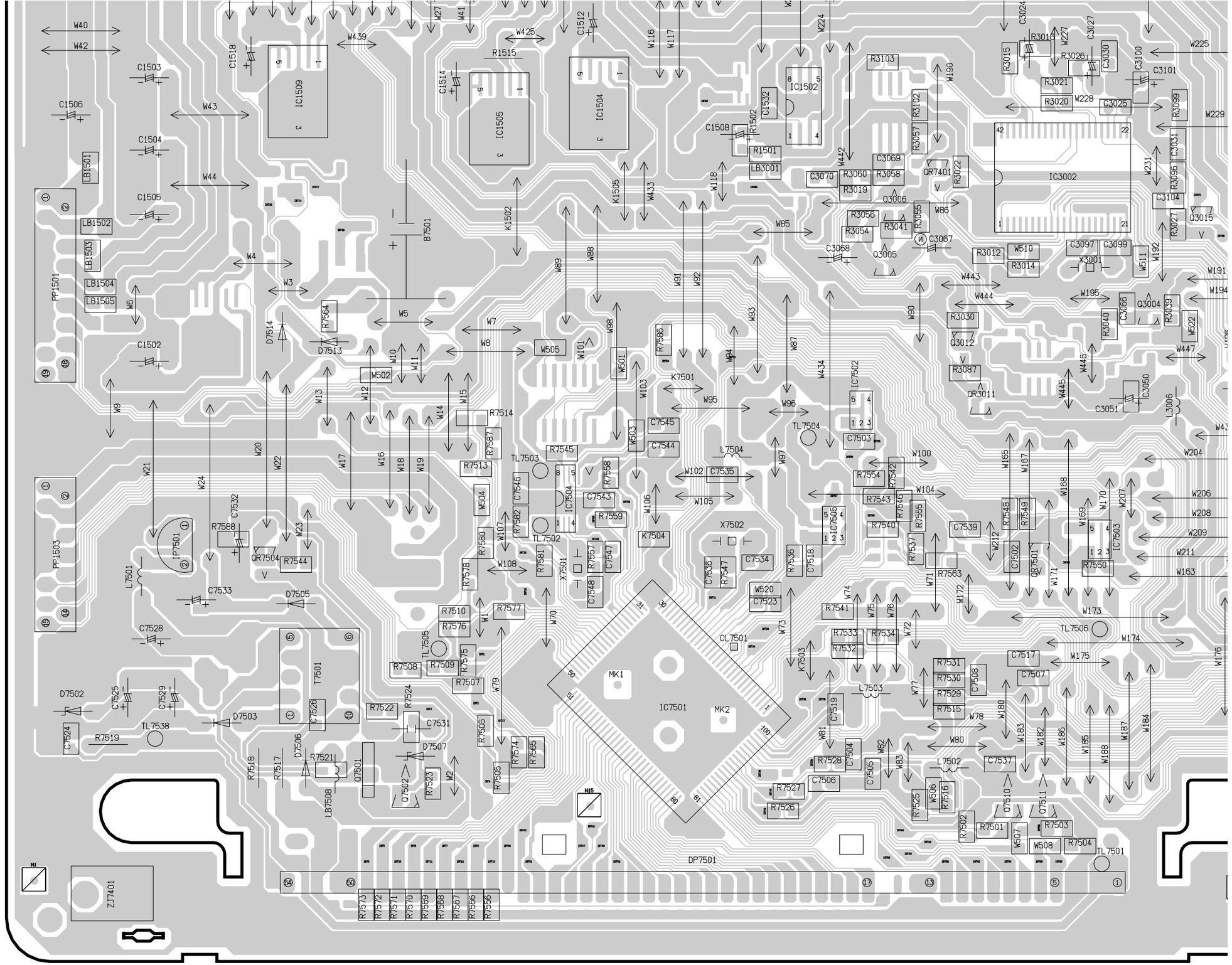
SA23 SA22 SA21 SA20 SA19 SA18 SA17 SA16 SA15 SA14 SA13 SA12 SA11 SA10 SA9 SA8 MSA7 MSA6 MSA5 MSA4 MSA3 MSA2 MSA1
SD31 SD30 SD29 SD28 SD27 SD26 SD25 SD24 SD23 SD22 SD21 SD20 SD19 SD18 SD17 SD16

DMR-E100H P/PC/PL
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

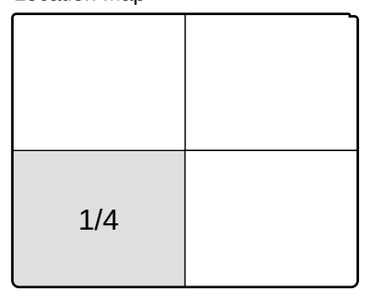
DMR-E100H P/PC/PL
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

MAIN P.C.B.

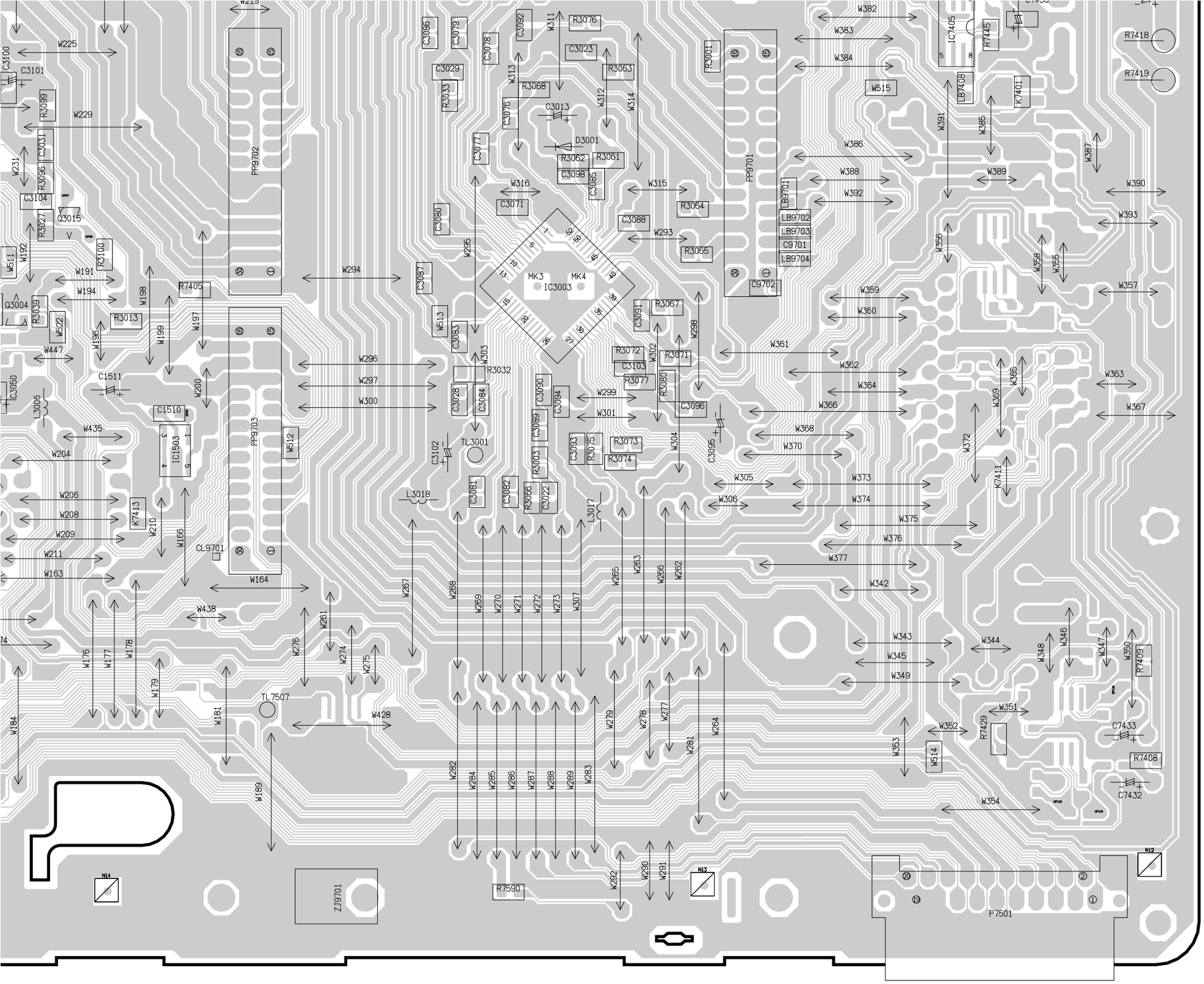
Integrated Circuit		TL7504	B-3	LB3918	F-3	C3061	E-6	C4070	E-2	R3016	D-4	R4002	E-2	R7507	B-2
IC1502	C-3	TL7505	B-2	LB4901	F-6	C3062	E-7	C4072	E-2	R3017	F-3	R4003	D-3	R7508	B-2
IC1503	B-5	TL7506	B-4	LB4902	F-6	C3063	F-7	C4074	E-2	R3018	F-3	R4004	E-2	R7509	B-2
IC1504	C-3	TL7507	A-5	LB4907	F-4	C3064	F-6	C4076	D-3	R3019	C-3	R4006	E-3	R7510	B-2
IC1505	C-2	TL7538	A-1	LB4908	F-3	C3066	C-4	C4077	E-3	R3020	C-4	R4008	E-2	R7513	B-2
IC1508	E-7	**Connector**		LB4909	F-4	C3067	C-4	C4078	E-3	R3021	C-4	R4011	D-3	R7514	B-2
IC1509	C-2	JK3901	F-2	LB4910	F-4	C3068	C-3	C4079	E-3	R3022	C-4	R4013	D-4	R7515	A-4
IC1513	F-7	JK3902	F-4	LB4911	F-2	C3069	C-3	C4080	D-3	R3024	E-7	R4014	E-2	R7516	A-4
IC3002	C-4	JK3903	F-5	LB4912	F-2	C3070	C-3	C4082	F-4	R3025	D-6	R4015	E-4	R7517	A-2
IC3003	C-6	P7501	A-7	LB4913	F-2	C3071	C-6	C4083	F-3	R3026	C-4	R4017	E-2	R7518	A-1
IC3005	E-6	P7503	F-1	LB4914	F-2	C3072	D-6	C4084	F-4	R3027	C-4	R4021	E-4	R7519	A-1
IC4002	E-3	PP1501	C-1	LB7402	F-7	C3073	E-6	C4085	F-3	R3028	E-7	R4022	E-3	R7521	A-2
IC4003	E-3	PP1503	B-1	LB7403	E-7	C3074	D-6	C4901	F-7	R3029	E-7	R4024	E-2	R7522	A-2
IC4009	E-4	PP9701	C-7	LB7408	C-7	C3075	D-6	C4902	F-6	R3030	C-4	R4026	E-4	R7523	A-2
IC4010	E-2	PP9702	C-5	LB7508	A-2	C3076	C-6	C4903	F-6	R3032	C-6	R4030	E-2	R7524	A-2
IC4011	E-2	PP9703	B-5	LB9701	C-7	C3077	C-6	C4904	F-6	R3033	C-6	R4037	E-2	R7525	A-4
IC4012	E-2	**Diode**		LB9702	C-7	C3078	D-6	C4905	F-6	R3039	C-4	R4038	E-3	R7526	A-3
IC4901	F-6	D3001	C-6	LB9703	C-7	C3079	D-6	C7404	F-7	R3040	C-4	R4040	E-2	R7527	A-3
IC7405	D-7	D4005	E-3	LB9704	C-7	C3080	C-6	C7405	F-7	R3041	C-3	R4041	E-3	R7528	A-3
IC7501	A-3	D4006	E-3	**Capacitor**		C3081	B-6	C7411	E-7	R3042	D-6	R4042	E-3	R7529	A-4
IC7502	B-3	D7401	D-8	C1502	C-1	C3082	B-6	C7412	E-7	R3043	D-6	R4043	E-3	R7530	B-4
IC7503	B-4	D7502	A-1	C1503	C-1	C3083	C-6	C7416	F-8	R3044	D-6	R4044	E-4	R7531	B-4
IC7504	B-2	D7503	A-1	C1504	C-1	C3084	B-6	C7417	D-8	R3045	D-6	R4045	E-4	R7532	B-3
IC7505	B-3	D7505	B-2	C1505	C-1	C3085	C-6	C7432	A-8	R3046	E-6	R4046	E-4	R7533	B-3
IC7507	F-1	D7506	A-2	C1506	C-1	C3086	D-6	C7433	A-8	R3047	D-6	R4047	E-4	R7534	B-3
Transistor		D7507	A-2	C1507	F-7	C3087	C-6	C7438	D-7	R3048	D-6	R4048	E-4	R7536	B-3
Q3001	D-6	D7513	C-2	C1508	C-3	C3088	C-6	C7439	D-7	R3049	E-6	R4049	E-3	R7537	B-4
Q3002	E-6	D7514	C-2	C1509	E-7	C3089	B-6	C7502	B-4	R3050	E-6	R4050	E-3	R7540	B-3
Q3003	E-7	**Crystal Osillator**		C1510	B-5	C3090	B-6	C7503	B-3	R3051	E-6	R4051	E-3	R7541	B-3
Q3004	C-4	X3001	C-4	C1511	B-5	C3091	C-6	C7504	A-3	R3052	D-6	R4052	E-2	R7542	B-3
Q3005	C-3	X7501	B-2	C1512	D-3	C3092	D-6	C7505	A-3	R3053	D-6	R4053	E-2	R7543	B-3
Q3006	C-3	X7502	B-3	C1514	C-2	C3093	B-6	C7506	A-3	R3054	C-3	R4054	E-3	R7544	B-2
Q3007	D-6	**IC Protector**		C1518	D-1	C3094	B-6	C7507	B-4	R3055	C-4	R4055	E-4	R7545	B-2
Q3008	D-6	IP7501	B-1	C1528	F-7	C3095	B-7	C7508	B-4	R3056	C-3	R4057	E-4	R7546	B-3
Q3009	D-6	**Coil**		C1530	F-7	C3096	B-6	C7517	B-4	R3057	C-4	R4060	E-3	R7547	B-3
Q3010	E-6	L3001	D-6	C1532	C-3	C3097	C-4	C7518	B-3	R3058	C-3	R4061	E-3	R7548	B-4
Q3011	E-7	L3002	D-6	C3001	E-6	C3098	C-6	C7519	A-3	R3060	C-3	R4062	E-3	R7549	B-4
Q3012	C-4	L3003	E-6	C3002	D-6	C3099	C-4	C7523	B-3	R3061	C-6	R4063	E-2	R7550	B-4
Q3015	C-4	L3004	E-6	C3003	D-6	C3100	C-4	C7524	A-1	R3062	C-6	R4064	E-3	R7554	B-3
Q4004	E-2	L3005	E-6	C3004	D-6	C3101	C-4	C7525	A-1	R3063	C-6	R4065	E-3	R7555	B-4
Q4006	F-4	L3006	B-4	C3005	D-6	C3102	B-6	C7526	A-2	R3064	C-6	R4066	E-2	R7556	A-2
Q4007	F-3	L3007	E-6	C3006	D-6	C3103	C-6	C7528	B-1	R3065	C-6	R4067	E-2	R7557	B-2
Q4008	F-4	L3008	E-7	C3007	D-6	C3104	C-4	C7529	A-1	R3066	B-6	R4068	E-4	R7558	B-3
Q4009	F-4	L3009	E-6	C3008	E-5	C3901	F-3	C7531	A-2	R3067	C-6	R4071	F-4	R7559	B-3
Q7401	E-7	L3010	D-7	C3009	E-7	C3902	F-2	C7532	B-1	R3068	C-6	R4072	D-2	R7563	B-4
Q7501	A-2	L3012	E-6	C3010	E-6	C3904	F-3	C7533	B-1	R3070	F-6	R4073	D-2	R7564	C-2
Q7502	A-2	L3014	E-7	C3011	E-6	C3905	F-4	C7534	B-3	R3071	C-6	R4074	E-3	R7565	A-2
Q7509	F-1	L3015	E-6	C3012	E-6	C3906	F-5	C7535	B-3	R3072	C-6	R4076	E-4	R7566	A-2
Q7510	A-4	L3016	E-6	C3013	C-6	C3907	F-3	C7536	B-3	R3073	B-6	R4077	E-4	R7567	A-2
Q7511	A-4	L3017	B-6	C3014	D-6	C4003	E-4	C7537	A-4	R3074	B-6	R4078	E-4	R7568	A-2
Transistor-resistor		L3018	B-6	C3016	D-6	C4005	E-4	C7539	B-4	R3075	B-6	R4079	F-3	R7569	A-2
QR3001	E-6	L3019	D-6	C3017	E-7	C4006	E-4	C7543	B-3	R3076	D-6	R4080	E-4	R7570	A-2
QR3002	D-7	L3020	D-6	C3018	D-6	C4021	E-3	C7544	B-3	R3077	B-6	R4081	E-3	R7571	A-2
QR3004	D-6	L3021	D-6	C3019	D-7	C4023	D-4	C7545	B-3	R3080	B-6	R4088	E-4	R7572	A-2
QR3005	E-6	L3022	D-6	C3020	E-7	C4025	D-4	C7546	B-2	R3084	F-5	R4089	E-4	R7573	A-2
QR3006	D-6	L3023	D-7	C3022	B-6	C4026	E-2	C7547	B-3	R3085	F-5	R4090	F-4	R7574	A-2
QR3007	D-7	L4901	F-6	C3023	D-6	C4028	E-4	C7548	B-2	R3086	E-7	R4091	F-4	R7575	B-2
QR3008	D-6	L7501	B-1	C3024	D-4	C4029	E-2	C7585	F-1	R3087	C-4	R4092	F-4	R7576	B-2
QR3009	D-6	L7502	A-4	C3025	C-4	C4030	E-2	C7586	F-1	R3096	C-4	R4093	F-3	R7577	B-2
QR3010	D-6	L7503	A-3	C3027	C-4	C4033	E-4	C7587	F-1	R3099	C-4	R4903	F-6	R7578	B-2
QR3011	B-4	L7504	B-3	C3028	B-6	C4034	E-4	C9701	C-7	R3100	C-5	R7403	F-8	R7580	B-2
QR4002	D-2	LB1501	C-1	C3029	C-6	C4037	E-2	C9702	C-7	R3102	C-4	R7404	F-8	R7581	B-2
QR4003	D-2	LB1502	C-1	C3030	D-4	C4038	E-2	**Resistor**		R3103	C-3	R7405	C-5	R7582	B-2
QR4004	D-2	LB1503	C-1	C3031	C-4	C4039	E-3	R1501	C-3	R3106	D-7	R7406	D-8	R7586	C-3
QR4005	D-2	LB1504	C-1	C3043	E-6	C4040	E-3	R1502	C-3	R3107	E-7	R7407	D-8	R7587	B-2
QR4006	E-2	LB1505	C-1	C3044	E-6	C4041	E-3	R1515	D-2	R3108	E-7	R7408	A-8	R7588	B-1
QR4007	E-2	LB3001	C-3	C3045	E-6	C4042	E-3	R3001	D-6	R3901	F-3	R7409	B-8	R7590	A-6
QR4010	D-2	LB3901	F-5	C3046	E-6	C4043	E-3	R3002	D-6	R3902	F-2	R7418	D-8	R7600	F-1
QR4011	E-2	LB3902	F-5	C3047	E-6	C4052	E-4	R3003	B-6	R3903	F-3	R7419	C-8	R7601	F-1
QR4012	E-2	LB3903	F-4	C3048	E-6	C4055	E-2	R3004	D-6	R3904	F-3	R7445	D-7	R7602	F-1
QR7401	C-4	LB3904	F-5	C3049	E-6	C4056	E-1	R3005	D-6	R3905	F-5	R7446	D-7	**Transformer**	
QR7501	B-4	LB3908	F-6	C3050	B-4	C4057	E-4	R3006	D-6	R3906	F-4	R7447	D-7	T7501	B-2
QR7504	B-1	LB3909	F-5	C3051	B-4	C4058	E-2	R3007	E-5	R3907	F-5	R7448	D-7	**Backup Battery**	
Test Point		LB3910	F-5	C3052	E-6	C4059	E-2	R3008	E-6	R3908	F-5	R7451	D-7	B7501	C-2
CL7501	B-3	LB3911	F-4	C3053	E-6	C4060	E-4	R3009	E-6	R3920	F-6	R7452	E-7		
CL9701	B-5	LB3912	F-4	C3055	E-6	C4061	E-4	R3010	E-6	R3921	F-2	R7501	A-4		
TL3001	B-6	LB3913	F-2	C3056	E-6	C4062	E-2	R3011	E-6	R3922	F-4	R7502	A-4		
TL7401	E-8	LB3914	F-2	C3057	E-6	C4063	F-4	R3012	C-4	R3923	F-2	R7503	A-4		
TL7501	A-4	LB3915	F-3	C3058	F-6	C4064	E-3	R3013	C-5	R3924	F-4	R7504	A-4		
TL7502	B-2	LB3916	F-3	C3059	F-6	C4065	E-4	R3014	C-4	R3926	F-5	R7505	A-2		
TL7503	B-2	LB3917	F-2	C3060	F-6	C4068	D-2	R3015	D-4	R3927	F-5	R7506	A-2		



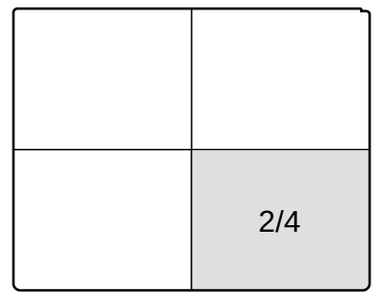
Location Map



DMR-E100H P/PC/PL
Main P.C.B. (REP3603B)
(1/4 Section)



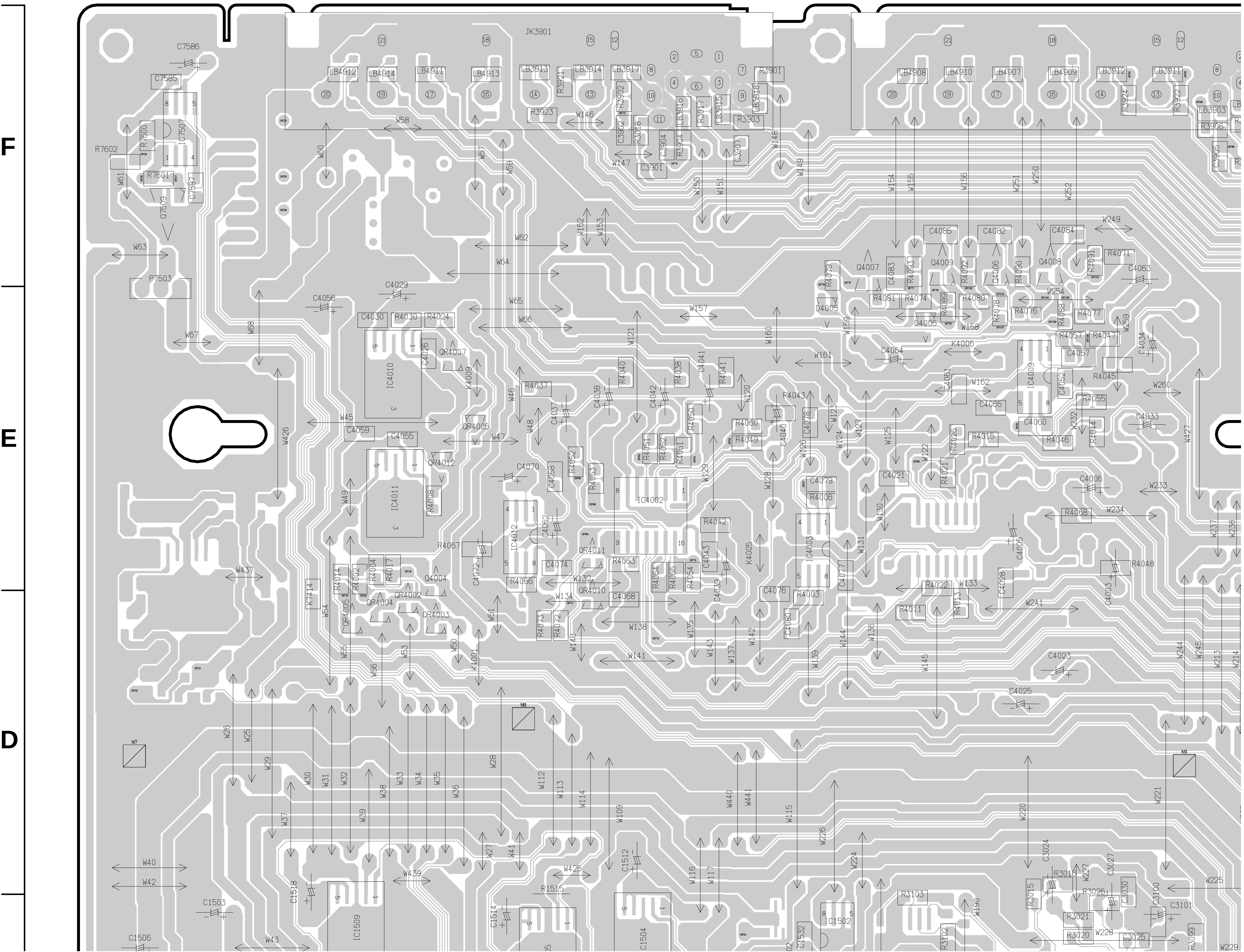
Location Map



DMR-E100H P/PC/PL
Main P.C.B. (REP3603B)
(2/4 Section)

5 6 7 8

MAIN P.C.B.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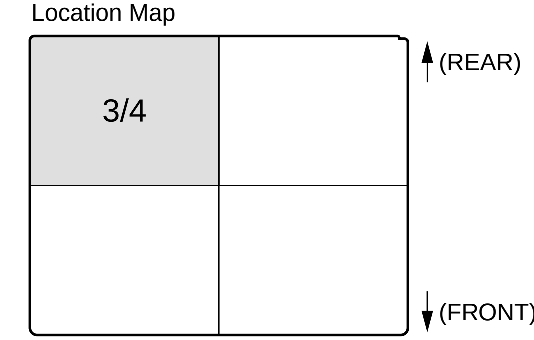
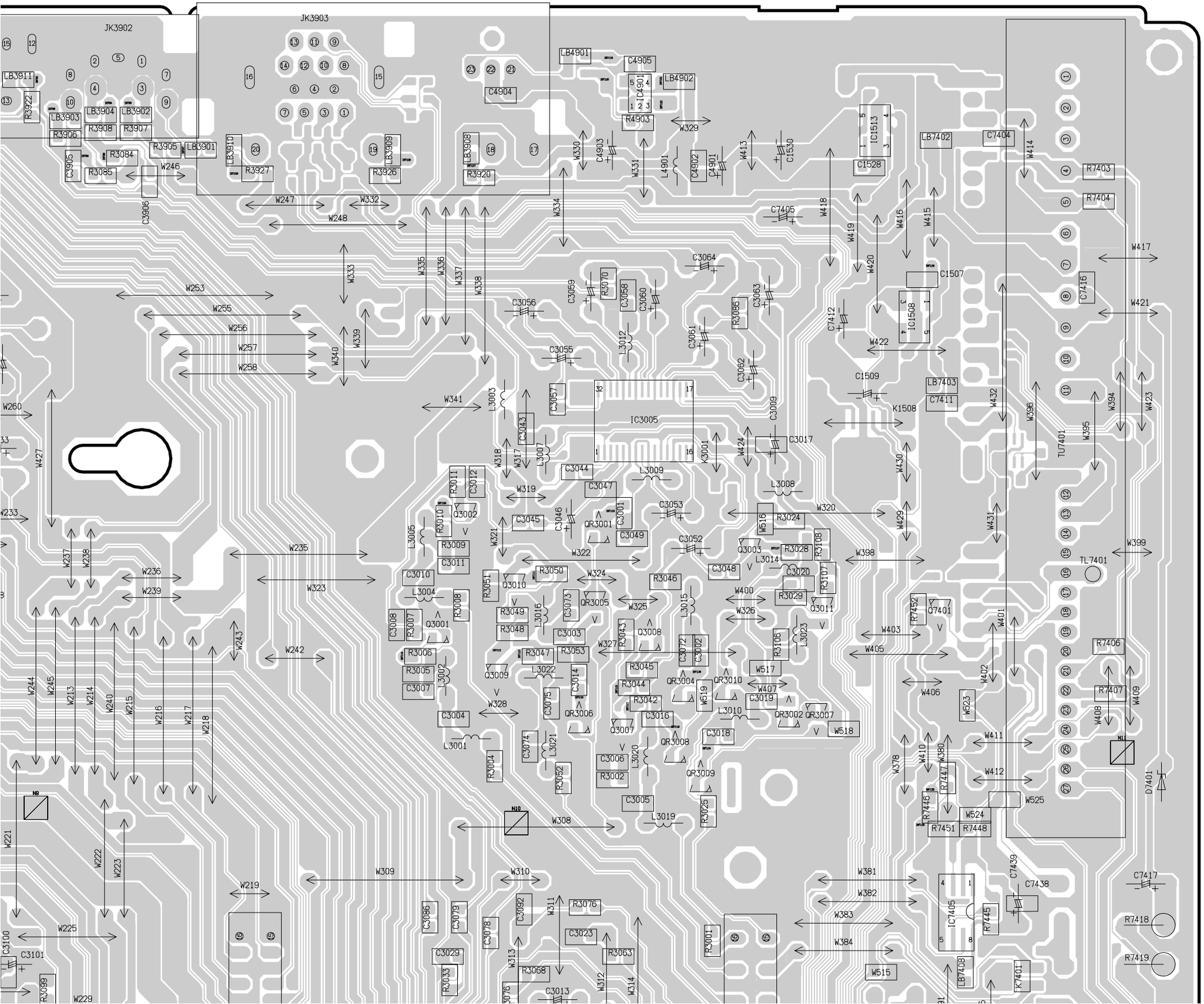
W238

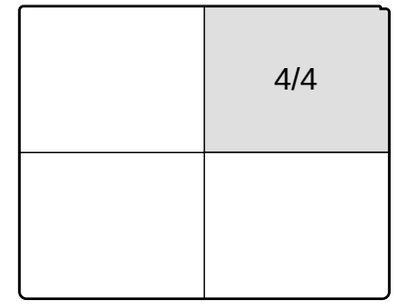
Location Map



DMR-E100H P/PC/PL
Main P.C.B. (REP3603B)
(3/4 Section)



Location Map



DMR-E100H P/PC/PL
Main P.C.B. (REP3603B)
(4/4 Section)

Ref No.	IC1502									IC1503						IC1504				
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5		1	2	3	4	5
REC	1.5	1.5	3.3	3.3	0	0	1.8	1.8		1.2	0	3.2	3.2	1.8		4.8	5.0	0	3.3	3.3
PLAY	1.5	1.5	3.3	3.3	0	0	1.8	1.8		1.2	0	3.2	3.2	1.8		4.8	5.0	0	3.3	3.3
STOP	1.5	1.5	3.3	3.3	0	0	1.8	1.8		1.2	0	3.2	3.2	1.8		4.8	5.0	0	3.3	3.3

Ref No.	IC1505						IC1508						IC1509							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5			
REC	4.8	5.7	0	5.0	5.0		1.2	0	5.0	5.7	4.9		5.0	3.3	0	2.5	2.5			
PLAY	4.8	5.7	0	5.0	5.0		1.2	0	5.0	5.7	4.9		5.0	3.3	0	2.5	2.5			
STOP	4.8	5.7	0	5.0	5.0		1.2	0	5.0	5.7	4.9		5.0	3.3	0	2.5	2.5			

Ref No.	IC1513				
MODE	1	2	3	4	5
REC	1.2	0	4.8	5.7	4.9
PLAY	1.2	0	4.8	5.7	4.9
STOP	1.2	0	4.8	5.7	4.9

Ref No.	IC3002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.4	2.2
PLAY	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.4	2.2
STOP	5.0	0	0	0	0	0	0	0	5.0	5.0	0.1	0.1	0	0	0	0	0	0	2.4	2.2

Ref No.	IC3002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	5.0	1.8	2.1	0.5	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
PLAY	0	5.0	1.8	2.1	0.5	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0
STOP	0	5.0	1.8	2.1	0.5	2.0	5.0	5.0	0	5.0	5.0	0	0	0	0	0	0	0	0	0

Ref No.	IC3002																			
MODE	41	42																		
REC	0	0																		
PLAY	0	0																		
STOP	0	0																		

Ref No.	IC3003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.4	4.9	1.8	0	1.8	4.7	1.4	0	0	2.6	0	1.4	4.7	1.4	4.9	0.1	2.7	0	1.4	4.7
PLAY	1.4	4.9	1.8	0	1.8	4.7	1.4	0	0	2.6	0	1.4	4.7	1.4	4.9	0.1	2.7	0	1.4	4.7
STOP	1.4	4.9	1.8	0	1.8	4.7	1.4	0	0	2.6	0	1.4	4.7	1.4	4.9	0.1	2.7	0	1.4	4.7

Ref No.	IC3003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.4	0	0.1	2.6	0	1.4	4.9	2.6	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1
PLAY	1.4	0	0.1	2.6	0	1.4	4.9	2.6	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1
STOP	1.4	0	0.1	2.6	0	1.4	4.9	2.6	4.6	4.9	4.9	0	0	0	2.3	1.1	1.6	1.9	0	1.1

Ref No.	IC3003																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52								
REC	4.9	1.6	0	1.6	4.9	0.1	1.8	2.2	0	0	0	0								
PLAY	4.9	1.6	0	1.6	4.9	0.1	1.8	2.2	0	0	0	0								
STOP	4.9	1.6	0	1.6	4.9	0.1	1.8	2.2	0	0	0	0								

Ref No.	IC3005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.9	4.9	2.6	0	2.5	4.8	0	2.4	0	1.8	4.8	2.7	0	2.7	5.0	2.1	2.1	0	2.1	0
PLAY	1.9	4.9	2.6	0	2.5	4.8	0	2.4	0	1.8	4.8	2.7	0	2.7	5.0	2.1	2.1	0	2.1	0
STOP	1.9	4.9	2.6	0	2.5	4.8	0	2.4	0	1.8	4.8	2.7	0	2.7	5.0	2.1	2.1	0	2.1	0

Ref No.	IC3005																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	1.9	1.9	0	1.9	1.9	0	1.8	0	1.8	1.8	0	2.1								
PLAY	1.9	1.9	0	1.9	1.9	0	1.8	0	1.8	1.8	0	2.1								
STOP	1.9	1.9	0	1.9	1.9	0	1.8	0	1.8	1.8	0	2.1								

Ref No.	IC4002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
REC	5.9	5.9	6.0	6.0	5.9	0	0	0	11.8	11.8	6.0	5.9	6.0	5.9	5.9	12.0				
PLAY	5.9	5.9	6.0	6.0	5.9	0	0	0	11.8	11.8	6.0	5.9	6.0	5.9	5.9	12.0				
STOP	5.9	5.9	6.0	6.0	5.9	0	0	0	11.8	11.8	6.0	5.9	6.0	5.9	5.9	12.0				

Ref No.	IC4003									IC4009										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
REC	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
PLAY	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			
STOP	6.0	6.0	6.0	0	6.0	6.0	6.0	12.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0			

Ref No.	IC4010						IC4011						IC4012							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8
REC	13.4	14.0	0	12.0	12.0		5.5	5.7	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
PLAY	13.4	14.0	0	12.0	12.0		5.5	5.7	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0
STOP	13.4	14.0	0	12.0	12.0		5.5	5.7	0	5.0	5.0		6.0	6.0	6.0	0	6.0	6.0	6.0	12.0

Ref No.	IC4901					IC7405														
MODE	1	2	3	4	5	1	2	3	4	5	6	7	8							
REC	0	1.6	0	2.5	4.9	0	2.5	1.8	0	2.8	2.5	3.2	4.9							
PLAY	0	1.6	0	2.5	4.9	0	2.5	1.8	0	2.8	2.5	3.2	4.9							
STOP	0	1.6	0	2.5	4.9	0	2.5	1.8	0	2.8	2.5	3.2	4.9							

Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	0	4.6	4.9	0	0	5.0	5.0	2.5	0	0	0	4.9	0	4.9	0	0	5.0	0.6	5.0
PLAY	5.0	0	4.6	4.9	0	0	5.0	5.0	2.5	0	0	0	4.9	0	4.9	0	0	5.0	0.6	5.0
STOP	5.0	0	4.6	4.9	0	0	5.0	5.0	2.5	0	0	0	4.9	0	4.9	0	0	5.0	0.6	5.0

Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	-	-	5.0	5.0	5.0	4.9	5.0	5.0	4.9	0	5.0	5.0	4.8	4.5	4.5	5.0	4.9	4.9	0
PLAY	0	-	-	5.0	5.0	5.0	4.9	5.0	5.0	4.9	0	5.0	5.0	4.8	4.5	4.5	5.0	4.9	4.9	0
STOP	0	-	-	5.0	5.0	5.0	4.9	5.0	5.0	4.9	0	5.0	5.0	4.8	4.5	4.5	5.0	4.9	4.9	0

Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	0	4.9	4.9	4.9	-25.3	-21.6	-29.0	-17.9	-17.3	-13.1	-25.2	-25.3	-21.0	-25.3	-25.3	-25.3	-21.6
PLAY	0	0	0	0	4.9	4.9	4.9	-25.3	-21.6	-29.0	-17.9	-17.3	-13.1	-25.2	-25.3	-21.0	-25.3	-25.3	-25.3	-21.6
STOP	0	0	0	0	4.9	4.9	4.9	-25.3	-21.6	-29.0	-17.9	-17.3	-13.1	-25.2	-25.3	-21.0	-25.3	-25.3	-25.3	-21.6

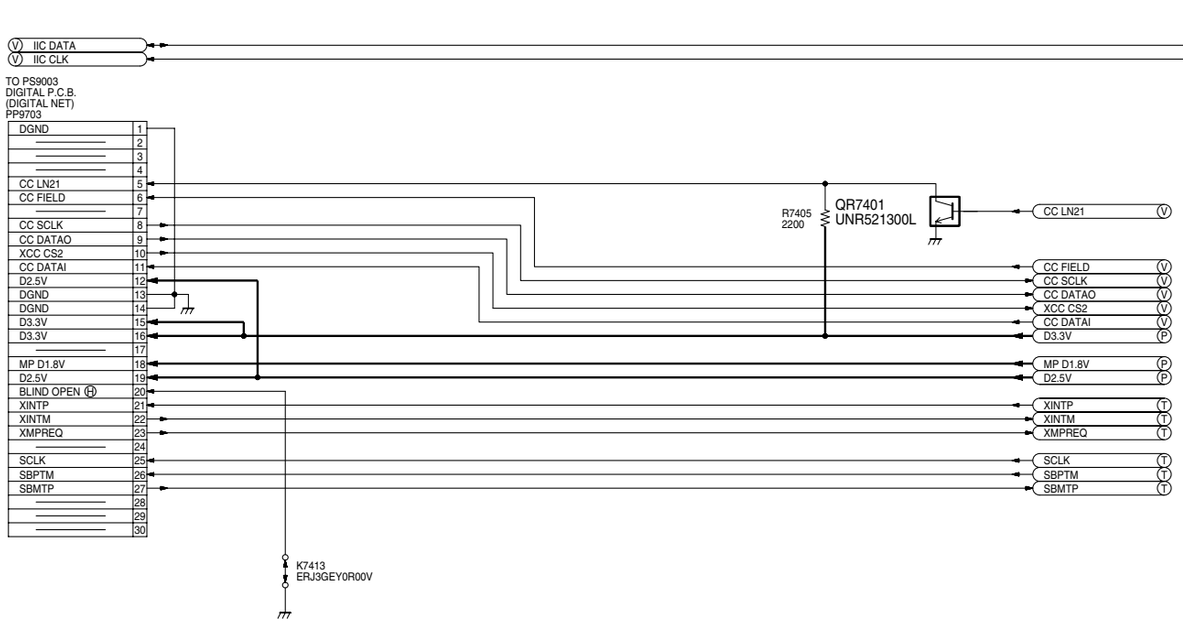
Ref No.	IC7501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	-17.4	-9.4	-17.4	-17.9	-21.6	-17.9	-21.0	-17.4	-13.2	-13.6	-12.6	-25.3	-25.3	-25.4	-25.4	-25.3	-25.3	-13.7	-16.8	-21.6
PLAY	-17.4	-9.4	-17.4	-17.9	-21.6	-17.9	-21.0	-17.4	-13.2	-13.6	-12.6	-25.3	-25.3	-25.4	-25.4	-25.3	-25.3	-13.7	-16.8	-21.6
STOP	-17.4	-9.4	-17.4	-17.9	-21.6	-17.9	-21.0	-17.4	-13.2	-13.6	-12.6	-25.3	-25.3	-25.4	-25.4	-25.3	-25.3	-13.7	-16.8	-21.6

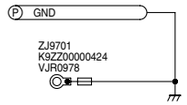
Ref No.	IC7501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.5	-25.5	-29.4	4.9	0	5.0	0	0	5.0	1.7	0	5.0	5.0	5.0
PLAY	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.5	-25.5	-29.4	4.9	0	5.0	0	0	5.0	1.7	0	5.0	5.0	5.0
STOP	-25.4	-25.4	-25.4	-25.4	-25.4	-25.4	-25.5	-25.5	-29.4	4.9	0	5.0	0	0	5.0	1.7	0	5.0	5.0	5.0

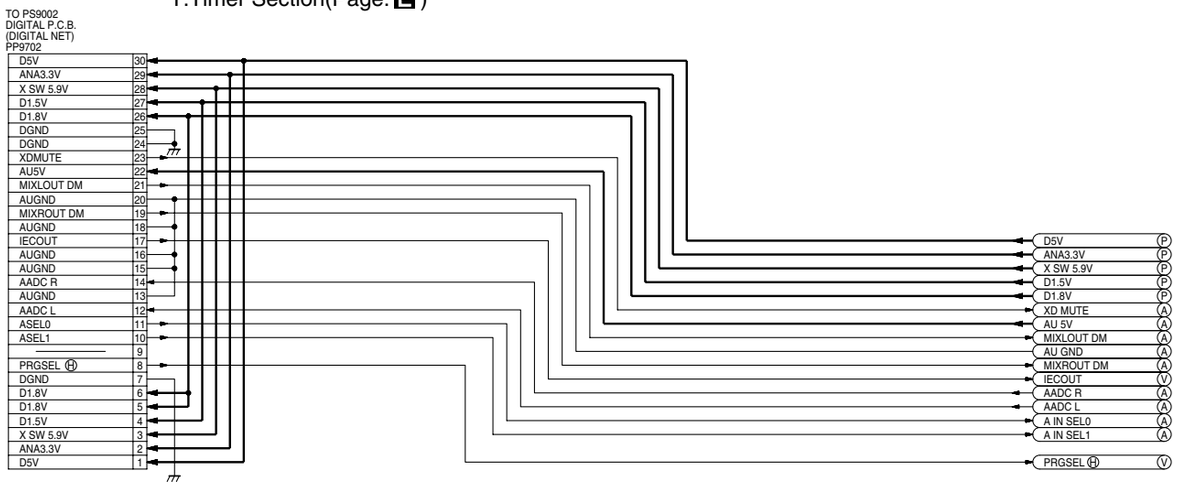
Ref No.	IC7502					IC7503						IC7504							
MODE	1	2	3	4	5	1	2	3	4	5		1	2	3	4	5	6	7	8
REC	0	0	0	4.9	5.0	2.1	3.2	0	0	0		0	0.1	0.5	0	0.6	4.8	4.4	4.9
PLAY	0	0	0	4.9	5.0	2.1	3.2	0	0	0		0	0.1	0.5	0	0.6	4.8	4.4	4.9
STOP	0	0	0	4.9	5.0	2.1	3.2	0	0	0		0	0.1	0.5	0	0.6	4.8	4.4	4.9

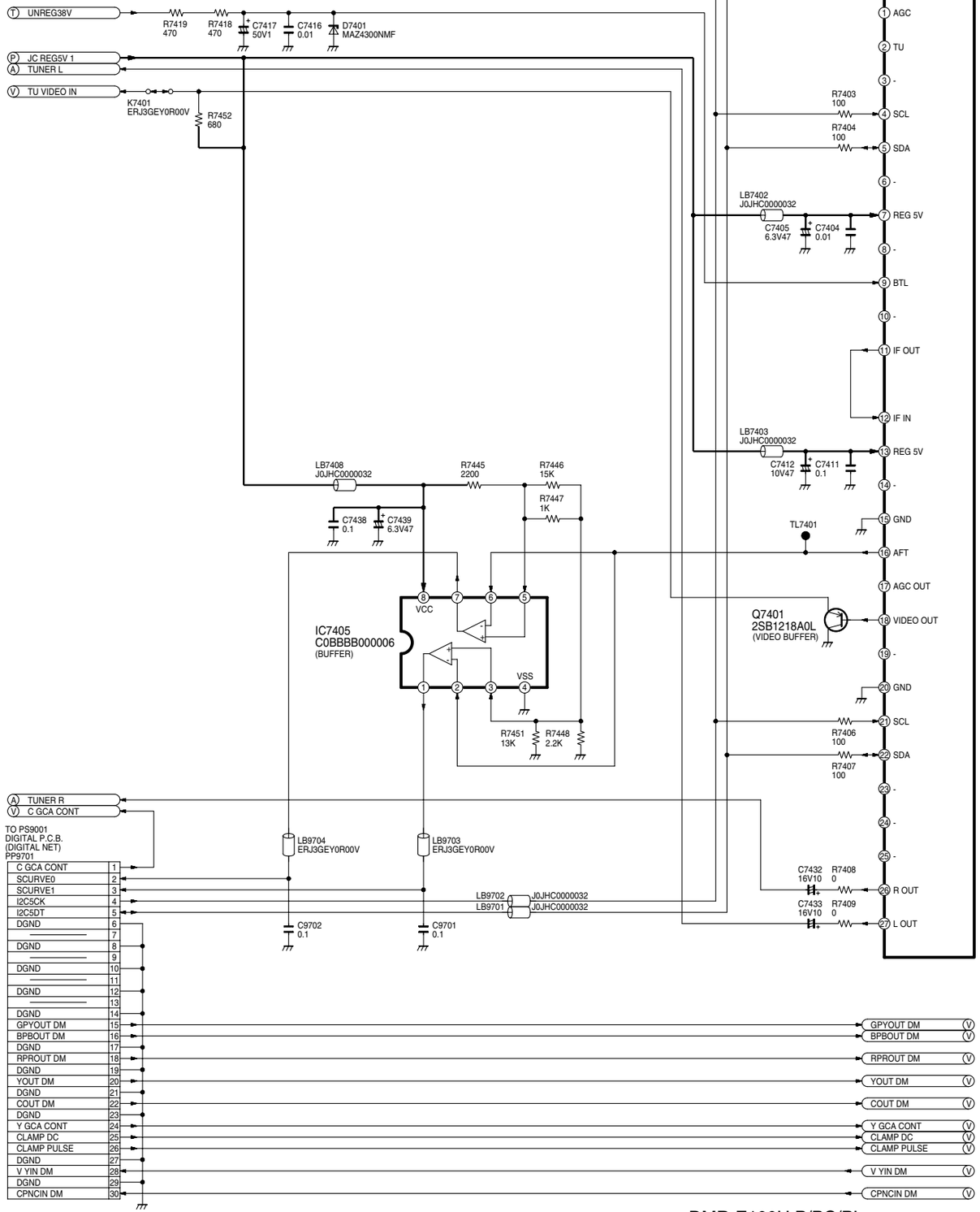
Ref No.	IC7505						IC7507													
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8						
REC	5.0	5.0	0	0	0		5.7	1.7	1.7	0	1.7	1.7	1.7	13.9						
PLAY	5.0	5.0	0	0	0		5.7	1.7	1.7	0	1.7	1.7	1.7	13.9						
STOP	5.0	5.0	0	0	0		5.7	1.7	1.7	0	1.7	1.7	1.7	13.9						
Ref No.	Q3001				Q3002				Q3003				Q3004				Q3005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	2.0	0	1.4		1.7	0	1.1		1.8	0	1.1		2.2	0	1.6		3.4	4.7	3.4	
PLAY	2.0	0	1.4		1.7	0	1.1		1.8	0	1.1		2.2	0	1.6		3.4	4.7	3.4	
STOP	2.0	0	1.4		1.7	0	1.1		1.8	0	1.1		2.2	0	1.6		3.4	4.7	3.4	
Ref No.	Q3006				Q3007				Q3008				Q3009				Q3010			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	4.9	0.5	4.7		1.6	0	1.0		1.0	4.9	1.6		1.6	0	1.0		1.0	4.9	1.6	
PLAY	4.9	0.5	4.7		1.6	0	1.0		1.0	4.9	1.6		1.6	0	1.0		1.0	4.9	1.6	
STOP	4.9	0.5	4.7		1.6	0	1.0		1.0	4.9	1.6		1.6	0	1.0		1.0	4.9	1.6	
Ref No.	Q3011				Q3012				Q3015				Q4004				Q4006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		5.0	0	5.0		0	0	-0.4	
PLAY	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		5.0	0	5.0		0	0	-0.1	
STOP	1.1	1.1	0		0	4.7	0.2		2.2	0	1.6		5.0	0	5.0		0	0	-0.4	
Ref No.	Q4007				Q4008				Q4009				Q7401				Q7501			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	-0.2		0	0	-0.4		0	0	-0.4		2.7	0	2.1		0	8.7	-1.1	
PLAY	0	0	-0.2		0	0	-0.1		0	0	-0.1		2.7	0	2.1		0	8.7	-1.1	
STOP	0	0	-0.1		0	0	-0.4		0	0	-0.4		2.7	0	2.1		0	8.7	-1.1	
Ref No.	Q7502				Q7509				Q7510				Q7511							
MODE	E	C	B		1	2	3		E	C	B		E	C	B					
REC	0	-1.1	-1.9		4.9	14.0	5.6		-25.6	5.0	-25.5		-25.6	5.0	-25.5					
PLAY	0	-1.1	-1.9		4.9	14.0	5.6		-25.6	5.0	-25.5		-25.6	5.0	-25.5					
STOP	0	-1.1	-1.9		4.9	14.0	5.6		-25.6	5.0	-25.5		-25.6	5.0	-25.5					
Ref No.	QR3001				QR3002				QR3004				QR3005				QR3006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7	
PLAY	0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7	
STOP	0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7		0	0	4.7	
Ref No.	QR3007				QR3008				QR3009				QR3010				QR3011			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.7		0	0	4.7		0	0.2	0		0	0	4.7		4.9	0.1	4.7	
PLAY	0	0	4.7		0	0	4.7		0	0.1	0		0	0	4.7		4.9	0.1	4.7	
STOP	0	0	4.7		0	0	4.7		0	0.1	0		0	0	4.7		4.9	0.1	4.7	
Ref No.	QR4002				QR4003				QR4004				QR4005				QR4006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	5.0		0	0	2.2		0	5.0	0		0	5.0	0		0	0	4.8	
PLAY	0	0	5.0		0	0	2.2		0	5.0	0		0	5.0	0		0	0	4.8	
STOP	0	0	5.0		0	0	2.2		0	5.0	0		0	5.0	0		0	0	4.8	
Ref No.	QR4007				QR4010				QR4011				QR4012				QR7401			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	13.4	0		0	11.8	0		0	11.8	0		0	5.5	0		0	3.2	0	
PLAY	0	13.4	0		0	11.8	0		0	11.8	0		0	5.5	0		0	3.2	0	
STOP	0	13.4	0		0	11.8	0		0	11.8	0		0	5.5	0		0	3.2	0	
Ref No.	QR7501				QR7504															
MODE	E	C	B		E	C	B													
REC	0	0	2.1		5.0	-1.5	4.8													
PLAY	0	0	2.1		5.0	-1.5	4.8													
STOP	0	0	2.1		5.0	-1.5	4.8													

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)









NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECTPART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

PSC 1. X SW+5.15V

Ref. No.	Pin. No.	Schematic Name
IC7501	24,98	Timer (Main)
IC7502	5	
IC7504	8	
IC7505	2	

PSC 2. JC REG.+5V

Ref. No.	Pin. No.	Schematic Name
IC3003	2,15,27	Video I/O (Main)
	41,45	
IC7405	8	Main Net (Main)

PSC 3. REG.ANA+5V

Ref. No.	Pin. No.	Schematic Name
IC3005	6,11	Video I/O (Main)
IC4901	5	

PSC 4. REG.AU+9V

Ref. No.	Pin. No.	Schematic Name
IC4002	16	Audio Main (Main)
IC4003	8	
IC4009	8	
IC4012	8	

PSC 5. REG.D+5V

Ref. No.	Pin. No.	Schematic Name
IC3002	22	Video I/O (Main)
IC6802	8	PC Card
IC6803	7,18,31,42	
IC6804	7,18	

PSC 6. X SW+13V

Ref. No.	Pin. No.	Schematic Name
IC7507	8	Timer (Main)

PSC 8. D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3203	39,64,88	AV Input (Digital)
	109,131,156	
IC3402	7,19,32,44	AV Encoder (Digital)
	59,71,84,96	
	111,123,136	
	148,163,175	
	188,198	
IC37001	17,47,64,81	1394/DV (Digital)
	92,126,133	
	146,179,212	

PSC 9. REG.D+1.5V

Ref. No.	Pin. No.	Schematic Name
IC50003	12,30,48	AV Decoder (Digital)
	69,98,127	
	135,172,186	

PSC 10. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3201	1,7,13,25	AV Input (Digital)
	38,44	
IC3202	7,12,19,25	
	30,37,42,48	
IC3203	31,38,45	
	52,58,65	
	71,78,84	
	91,108,119	
	130,137,145	
	159,166,179	
IC3204	5	
IC3205	5	
IC3206	5	
IC4404	5	
IC3401	1,3,9,15,29	AV Encoder (Digital)
	35,41,43,49	
	55,75,81	
IC3402	4,14,22,34	
	46,50,57,66	
	75,83,91	
	100,110,118	
	126,132,139	
	145,152,160	
	167,172,181	
	185,192,199	
	202,205	
IC3501	1,3,9,14,27	RTSC (Digital)
	43,49	
IC3502	1,3,9,14,27	
	43,49	
IC3503	7,18,33,48	
	63,75,81,93	
	104,114,128	
	142,150,157	
	168,177,187	
	198,206,213	
	216,222,229	
	237,241,245	
	246,257,268	
	280,287	

PSC 10. D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3603	20	MPEG4 (Digital)
IC3604	5	
IC3607	1,3,9,15,29	
	35,41,43,49	
	55,75,81	
IC3608	7,42,78,94	
	100,103,107	
	136,159,189	
	199,223,254	
IC3609	8	
IC37001	10,19,29,37	1394 DV (Digital)
	43,50,56,69	
	76,87,97	
	108,118,132	
	141,153,171	
	183,190,197	
	207,216	
IC37002	25,26,61,62	
IC37006	19	
IC50001	1,11,14,19	AV Decoder (Digital)
IC50002	1,3,9,14	
	27,43,49	
IC50003	5,15,26,39	
	52,58,66,75	
	89,103,131	
	144,152,157	
	165,175,184	
	194,203	
IC50004	1,3,9,14	
	27,43,49	
IC50005	5	
IC50006	5	
IC50009	20	
IC50013	5	
IC50014	14	
IC6001	5	Syscon (Digital)
IC6002	1,3,9,14	
	27,43,49	
IC6003	1,3,9,14,27	
	43,49	
IC6004	2,20,33,43	
	54,74,110	
	121,132,152	
	164,170,183	
	202	
IC6006	23	
IC6007	7,18,31,42	
IC6701	29,57,82	GLUE (Digital)
	103,134,161	
	184,204,206	
IC6702	5	
IC6704	12,37	
IC6801	8	PC Card
IC6804	31,42	
IC6805	8	
IC6806	14	
IC6810	8	

PSC 11. REG.SD+1.8V

Ref. No.	Pin. No.	Schematic Name
IC6004	21,55,75	Syscon (Digital)
	111,122,153	
	184,203	

PSC 12. REG.MP D+1.8V

Ref. No.	Pin. No.	Schematic Name
IC3608	24,56,76,84	MPEG4 (Digital)
	117,132,173	
	203,231,232	
	275	

PSC 13. REG.D+2.5V

Ref. No.	Pin. No.	Schematic Name
IC3503	14,30,59,91	RTSC (Digital)
	124,149,184	
	199,227,260	
	281	

PSC 14. REG.ANA+3.3V

Ref. No.	Pin. No.	Schematic Name
IC3203	2,11,12,21	AV Input (Digital)
	26,30	
IC3402	30	AV Encoder (Digital)
IC37002	30,31,42,51	1394 DV (Digital)
	52,56	
IC50003	105,112,118	AV Decoder (Digital)

PSC 15. REG.DAC+3.3V

Ref. No.	Pin. No.	Schematic Name
IC4403	14	AV Input (Digital)
IC50010	5	AV Decoder (Digital)

PSC 16. REG.AU+5V

Ref. No.	Pin. No.	Schematic Name
IC4402	8	AV Input (Digital)
IC4403	5	
IC50010	6	AV Decoder (Digital)

PSC 17. REG.D+3V

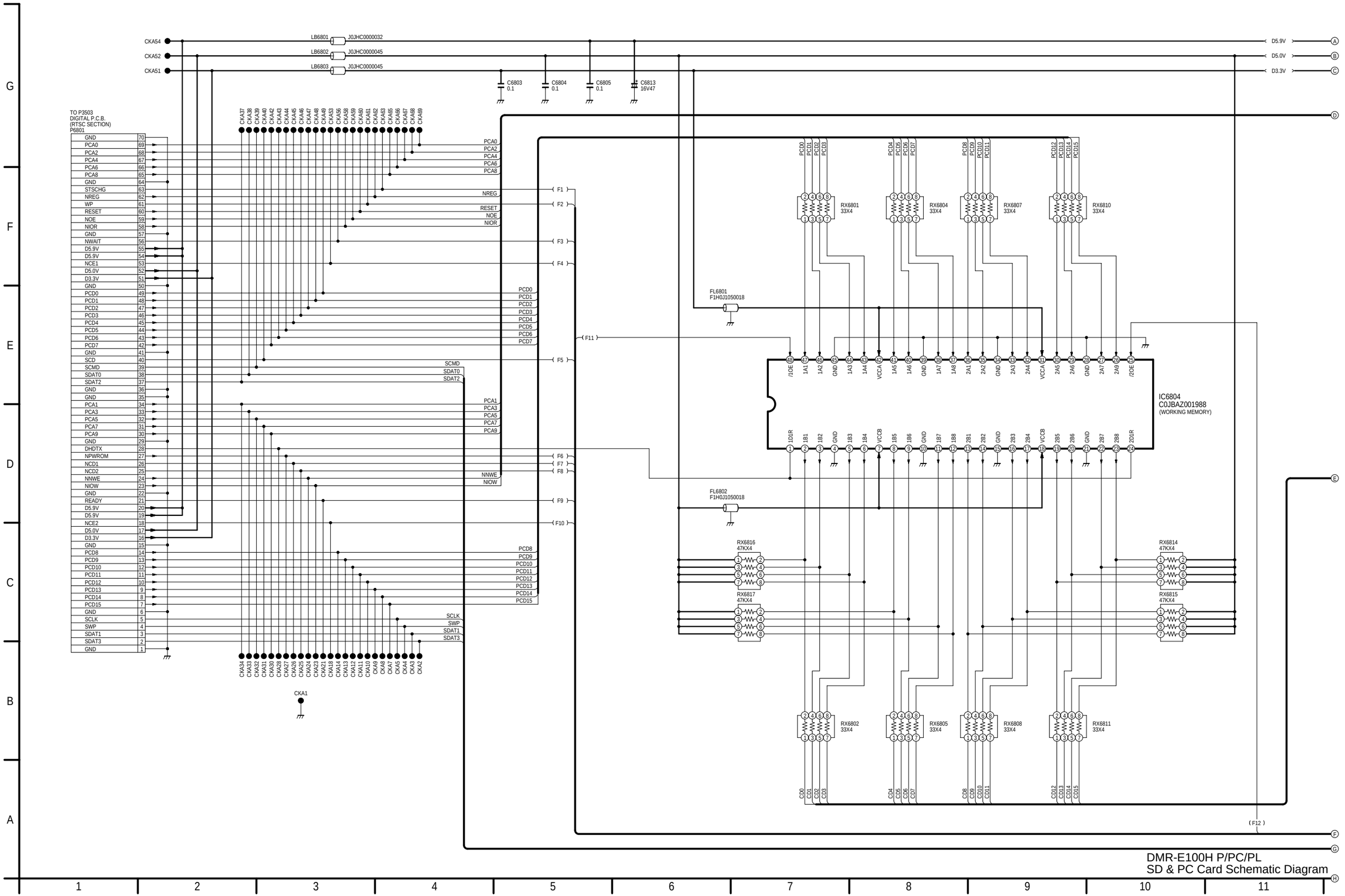
Ref. No.	Pin. No.	Schematic Name
IC37003	12,31,43	1394 DV (Digital)
IC37008	5	
IC37011	5	

PSC 18. REG.D+3.3V

Ref. No.	Pin. No.	Schematic Name
IC50001	5,6	AV Decoder (Digital)

PSC 19. REG.DC+5V

Ref. No.	Pin. No.	Schematic Name
IC6809	2	PC Card



DMR-E100H P/PC/PL
SD & PC Card Schematic Diagram

D5.9V
D5.0V
D3.3V

IC6807
C0DBCHG00003
(REG. DC + 5V)
Vin ON/OFF Vout NC GND

K6801
ERJ3GEY0R00V

R6804 47K
R6805 47K
R6803 2200
QR6801
UNR521100L
(SWITCH)
C6814 6V100
C6810 0.1
R6809 2200

IC6809
C0EBJ0000153
Vout Vin GND

R6813 22K
R6807 47K
Q6801
UNR521300L
(SWITCH)
R6806 100K
R6814 10K
C6809 0.1
C6811 0.01

FL6804
F1H0J1050018
FL6805
F1H0J1050018
FL6803
F1H0J1050018

PCA0 PCA1 PCA2 PCA3 PCA4 PCA5 PCA6 PCA7 PCA8 PCA9 NREG RESET NOE NNWE NIOR NIOW

IC6803
C0JBAZ001959
(BUFFER)
X20E 1A1 1A2 GND 1A3 1A4 VCC 2A1 2A2 GND 2A3 2A4 3A1 3A2 GND 3A3 3A4 VCC 4A1 4A2 GND 4A3 4A4 X30E
X10E 1Y1 1Y2 GND 1Y3 1Y4 VCC 2Y1 2Y2 GND 2Y3 2Y4 3Y1 3Y2 GND 3Y3 3Y4 VCC 4Y1 4Y2 GND 4Y3 4Y4 X40E

RX6803 33X4
RX6806 33X4
RX6809 33X4
RX6812 33X4

CA0 CA1 CA2 CA3 CA4 CA5 CA6 CA7 CA8 CA9 XREG PCRST XOE XWE XIOR XIOW

XCE2 XCE1

CD3 CD4 CD5 CD6 CD7 XCE1 XOE CA9 CA8 XWE CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0 CD0 CD1 CD2 CD11 CD12 CD13 CD14 CD15 XCE2 XIOR XIOW PCRST XREG CD8 CD9 CD10

CKB16 CKB15 CKB12 CKB11 CKB9 CKB7 CKB6 CKB5 CKB4 CKB3 CKB2
CKB32 CKB31 CKB30 CKB29 CKB28 CKB27 CKB26 CKB25 CKB24 CKB23 CKB22
CKB36 CKB37 CKB38 CKB39 CKB40 CKB41 CKB42 CKB44 CKB45
CKB43 CKB33
CKB51
CKB1
CKB67 CKB66 CKB65 CKB64 CKB63 CKB62 CKB61 CKB60 CKB59 CKB58 CKB57

R6821 22K
FL6806
F1H0J1050018
CKB17
R6822 22K
R6815 22K
FL6808
F1H0J1050018
R6827 22K
R6826 22K
R6816 22K
R6817 22K
R6818 22K
R6820 22K

TO PC CARD
P6802

1	GND
2	D3
3	D4
4	D5
5	D6
6	D7
7	XCE1
8	A10
9	XOE
10	A11
11	A9
12	A8
13	A13
14	A14
15	XWE
16	READY
17	VCC
18	VPP
19	A16
20	A15
21	A12
22	A7
23	A6
24	A5
25	A4
26	A3
27	A2
28	A1
29	A0
30	D0
31	D1
32	D2
33	WP
34	GND
35	GND
36	XCD1
37	D11
38	D12
39	D13
40	D14
41	D15
42	XCE2
43	XVS1
44	XIOR
45	XIOW
46	A17
47	A18
48	A19
49	A20
50	A21
51	VCC
52	VPP
53	A22
54	A23
55	A24
56	A25
57	XVS2
58	RESET
59	XWAIT
60	RFU
61	XREG
62	BVD2
63	XSTCG
64	D8
65	D9
66	D10
67	XCD2
68	GND

(F15) (F16) (F14) (F13) (F6) (F11) (F9) (F3) (F2) (F10) (F4) (F12) (F1) (F7) (F5) (F8)

R6801 33
R6802 33
C6801 0.1
C6806 0.1
R6824 22K
C6816 0.1
C6808 0.1
R6825 22K
C6812 0.01

IC6802
C0JBAZ001166
IC6801
C0JBAE000098
IC6805
C0JBAZ001859
IC6810
C0JBAZ001859
IC6806
C0JBAZ000608

R6819 10K

RX6813 22X4
FL6807
F1H0J1050018

SDAT2 SDAT3 SCMD SDAT0 SCLK SDAT1 SWP

TO SD CARD
P6803

1	DAT3
2	CMD
3	GND
4	3.3V
5	CLK
6	GND
7	DAT0
8	DAT1
9	DAT2
10	WP
11	CD
12	COM
13	FG

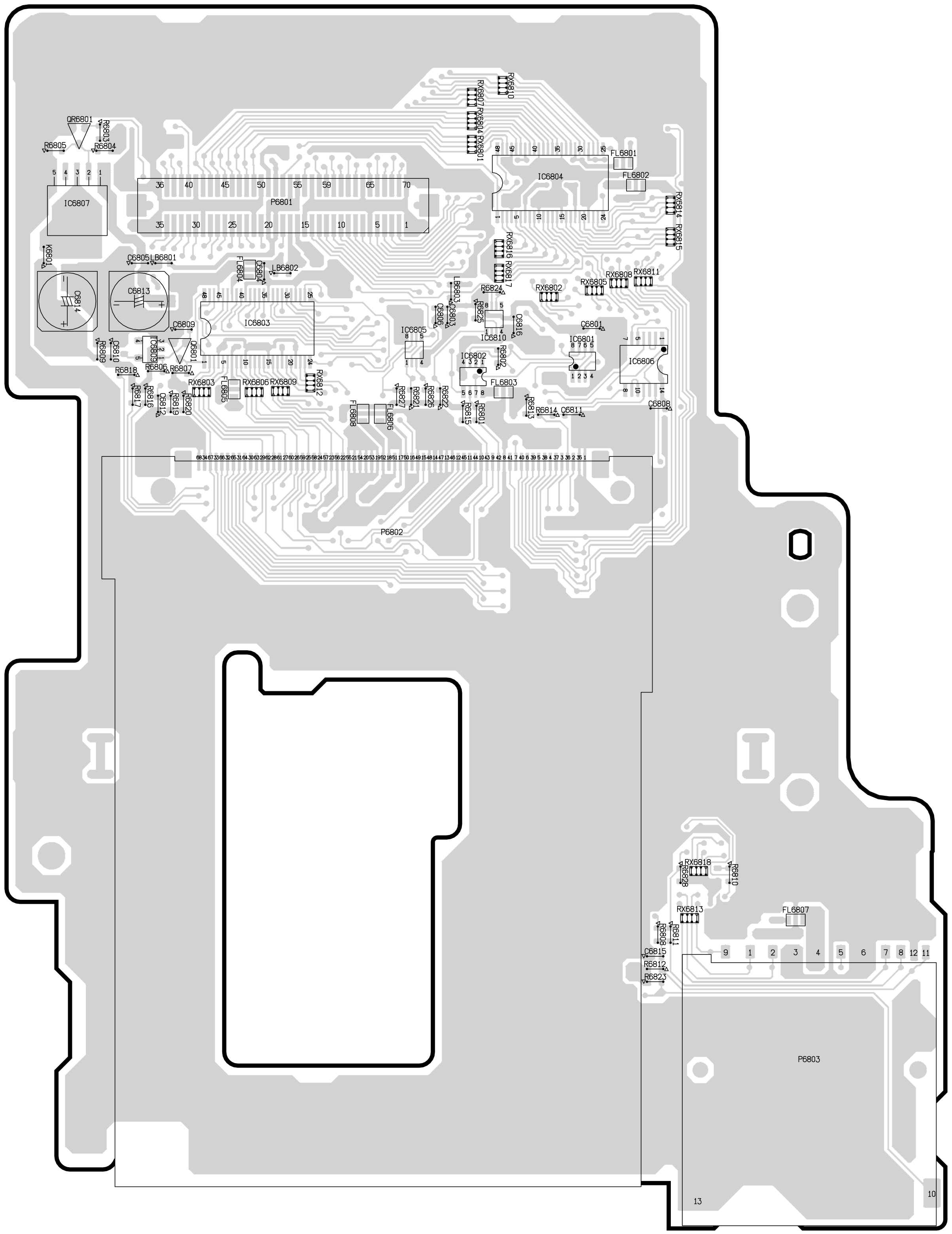
R6828 12K
R6810 22
R6811 22
R6808 100
C6815 0.01
R6812 22K
R6823 22K
RX6818 12KX4

DMR-E100H P/PC/PL
SD & PC Card Schematic Diagram

DMR-E100H P/PC/PL
SD & PC Card Schematic Diagram

12 13 14 15 16 17 18 19 20 21 22

SD & PC CARD P.C.B. (1/2)

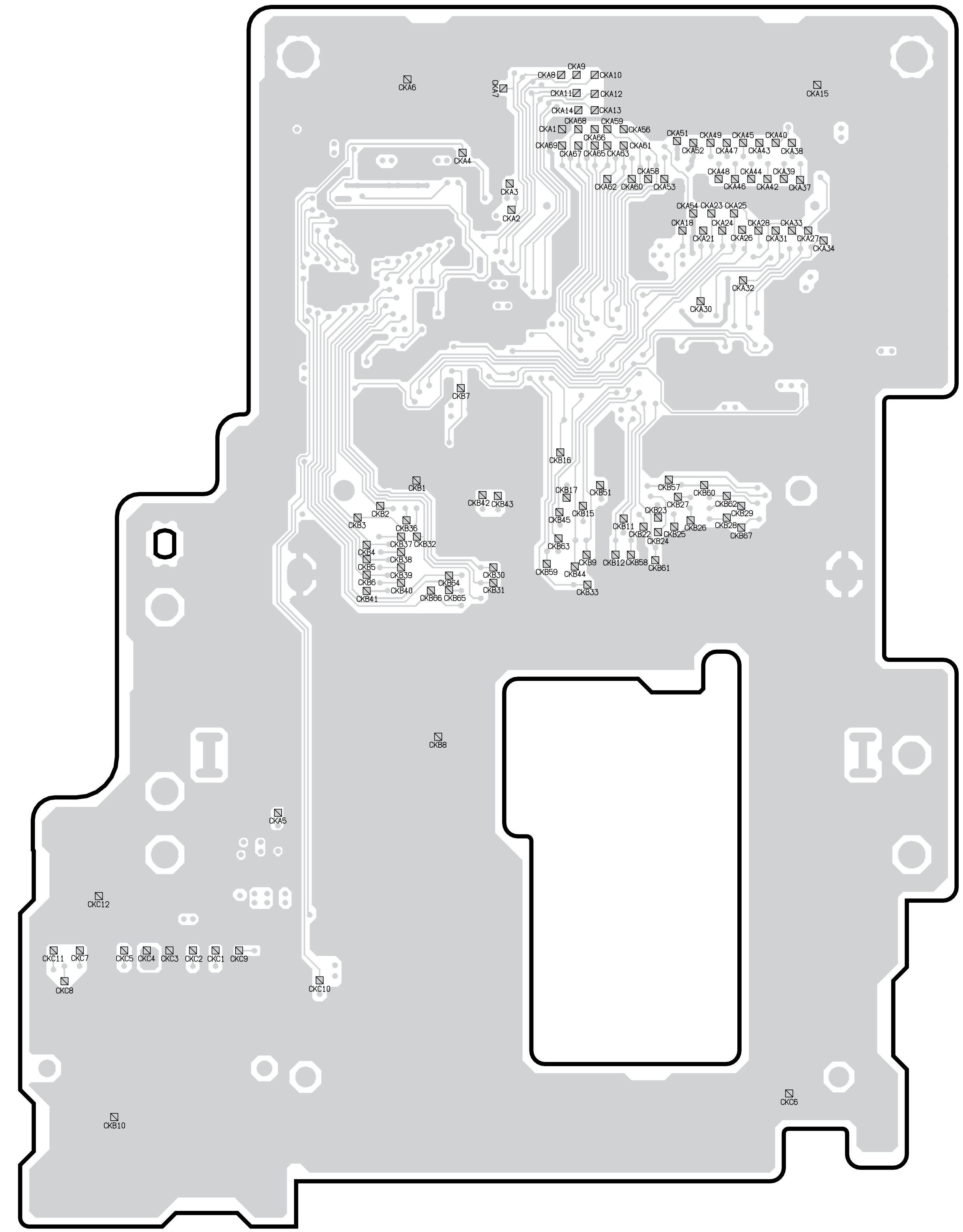


QR6801
R6805
R6803
R6804
IC6807
P6801
IC6804
FL6801
FL6802
RX6810
RX6807
RX6804
RX6801
RX6814
RX6815
RX6816
RX6817
K6801
C6805
LB6801
FL6804
C6804
LB6802
C6813
C6814
IC6803
C6809
IC6809
Q6801
R6809
C6810
R6818
R6806
R6807
R6817
R6816
C6812
R6819
R6820
RX6803
FL6805
RX6806
RX6809
RX6812
FL6808
FL6806
IC6805
LB6803
C6803
C6806
R6825
R6824
IC6810
C6816
IC6802
R6802
FL6803
R6827
R6821
R6826
R6822
R6815
R6801
RX6802
RX6805
RX6808
RX6811
C6801
IC6801
IC6806
R6813
R6814
C6811
C6808
P6802
RX6818
R6828
R6810
RX6813
R6808
R6811
C6815
R6812
R6823
FL6807
P6803

(COMPONENT SIDE)

DMR-E100H P/PC/PL
SD&PC CARD P.C.B. (1/2)
(REP3540CA)

SD & PC CARD P.C.B. (2/2)



CKA6
CKA7
CKA8
CKA9
CKA10
CKA11
CKA12
CKA14
CKA13
CKA15
CKA4
CKA3
CKA2
CKA1
CKA68
CKA59
CKA56
CKA66
CKA69
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CKB38
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CKB39
CKB30
CKB9
CKB12
CKB58
CKB61
CKB6
CKB40
CKB64
CKB59
CKB44
CKB41
CKB66
CKB65
CKB31
CKB33
CKB8
CKA5
CKC12
CKC11
CKC7
CKC5
CKC4
CKC3
CKC2
CKC1
CKC9
CKC8
CKC10
CKB10
CKC6

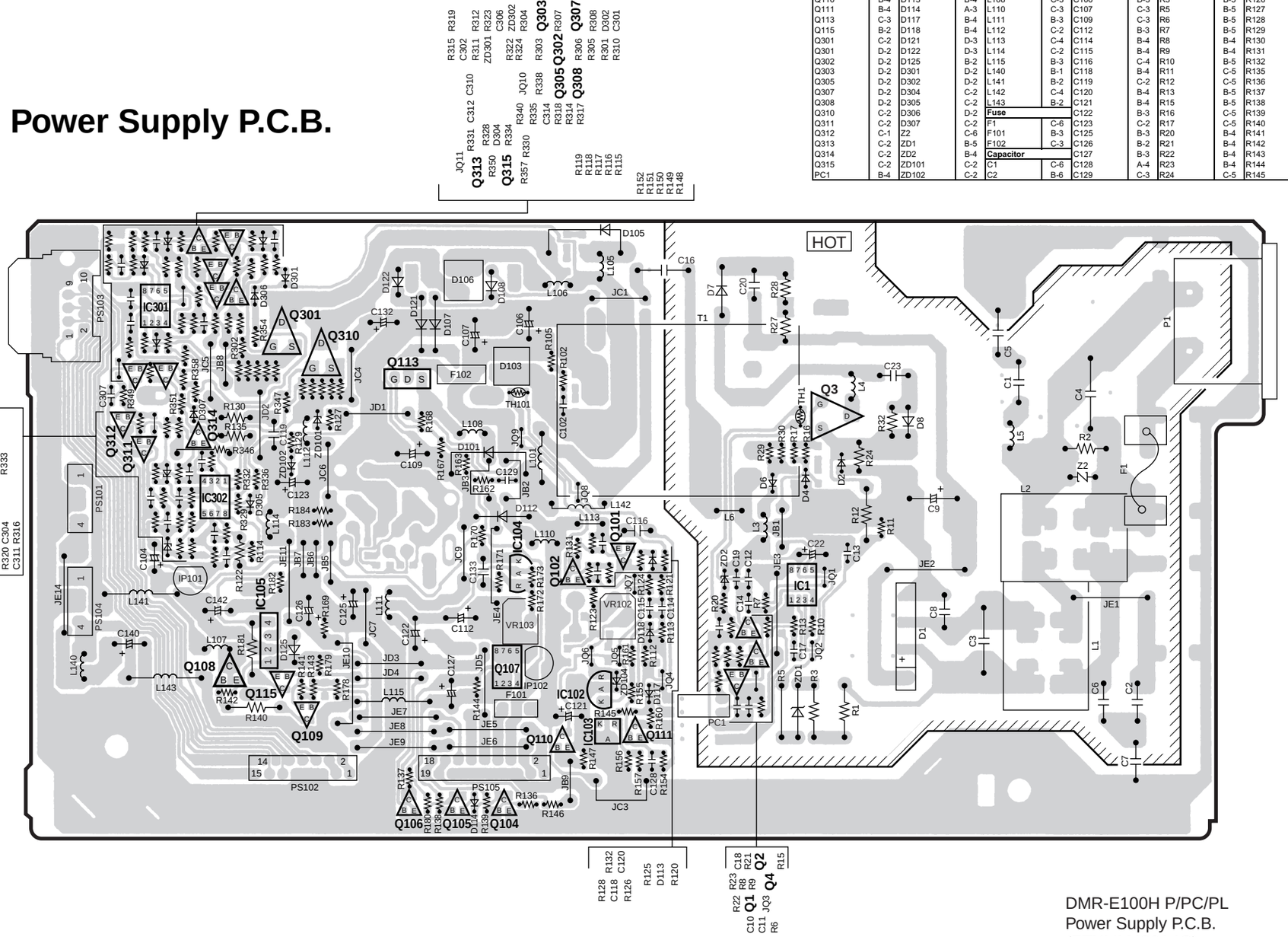
(FOIL SIDE)

DMR-E100H P/PC/PL
SD&PC CARD P.C.B. (2/2)
(REP3540CA)

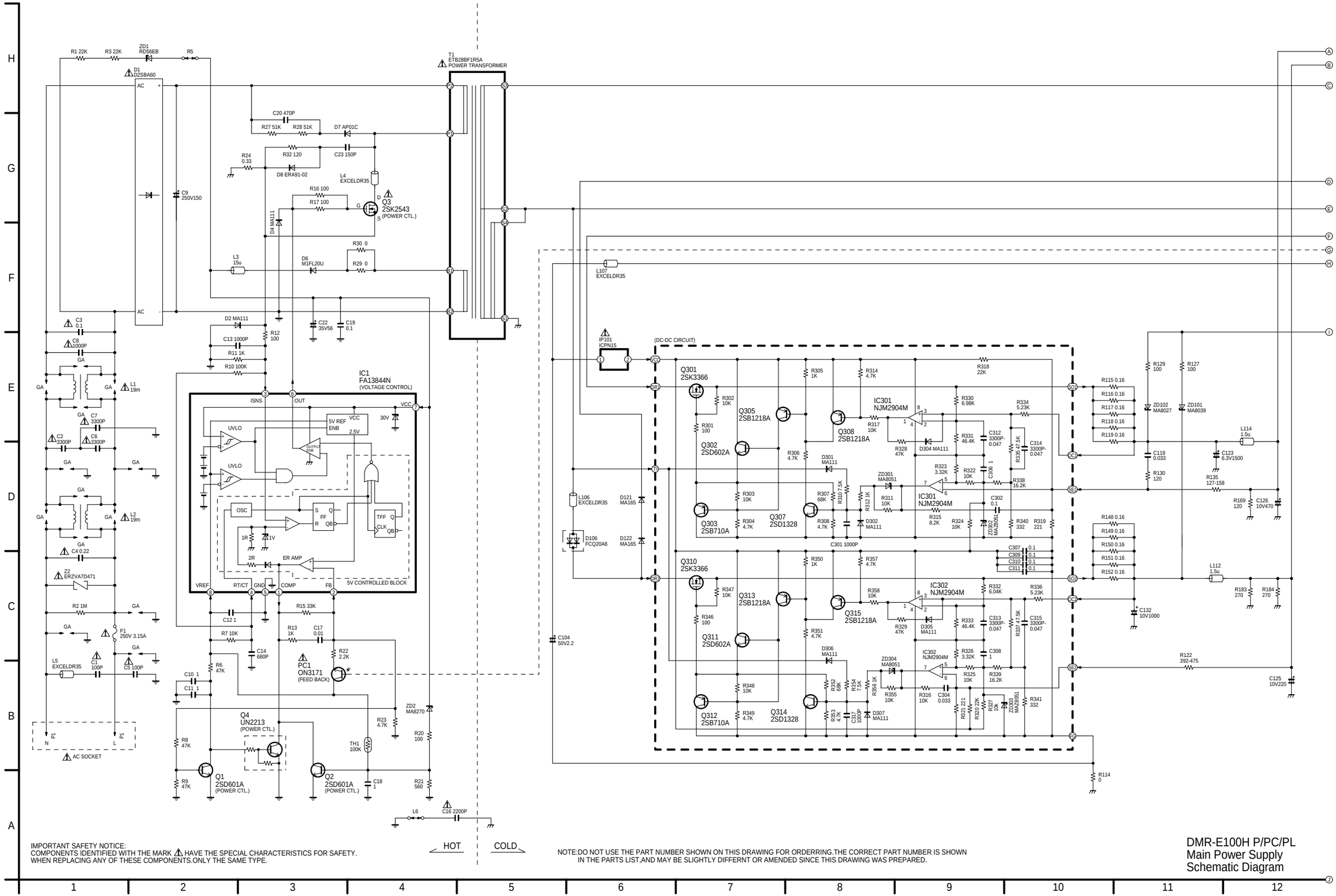
Power Supply P.C.B.

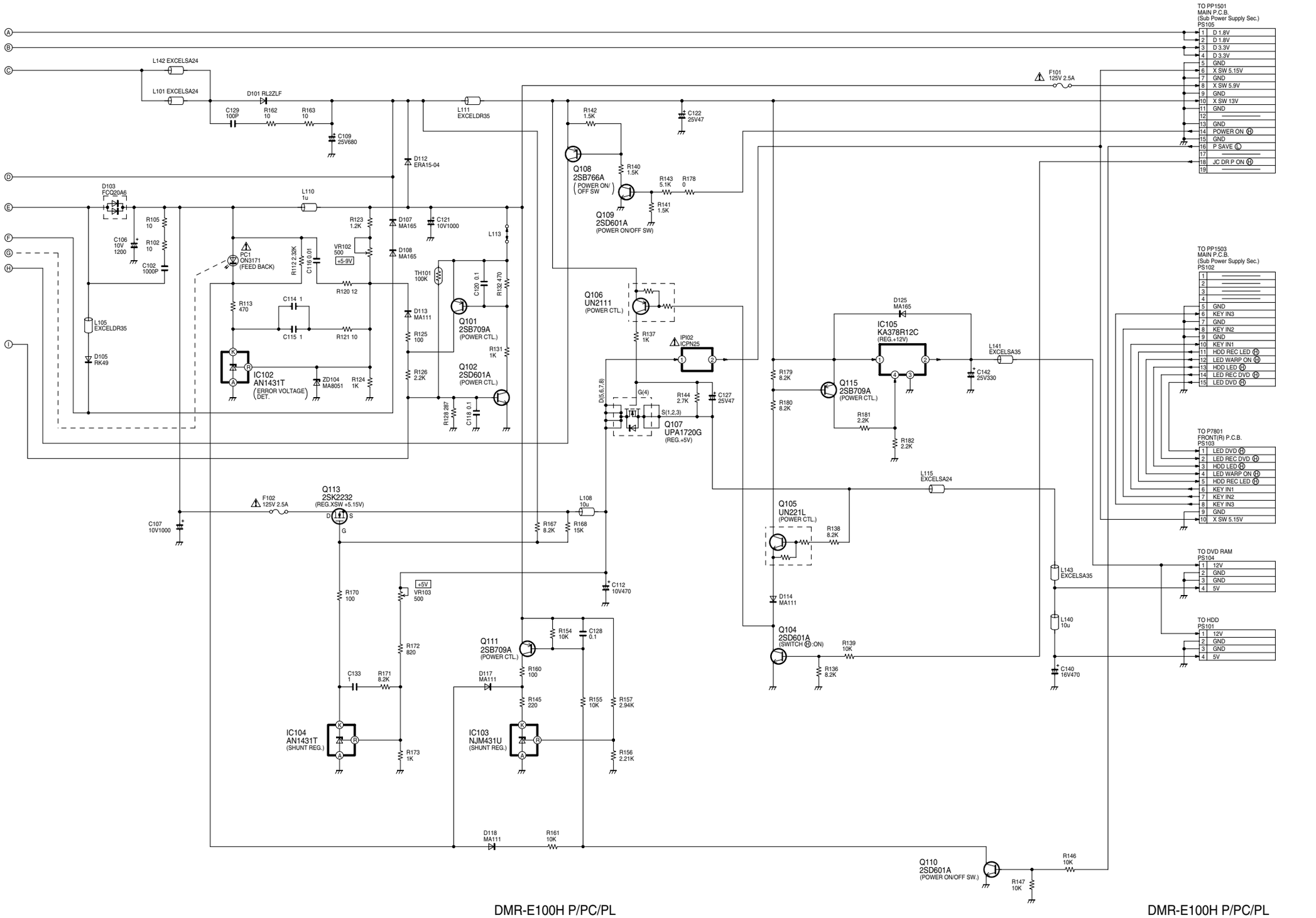
POWER SUPPLY P.C.B.

Integrated Circuit		Connector		ZD104	B-4	C3	B-6	C132	D-3	R27	D-5	R146	A-4	R312	D-2	R356	C-2
IC1	B-5	P1	D-7	ZD301	D-2	C4	C-6	C133	B-3	R28	D-5	R147	A-4	R314	D-2	R357	C-2
IC102	B-4	PS101	C-1	ZD302	D-2	C5	C-6	C140	B-2	R29	C-5	R148	C-3	R315	D-1	R358	C-2
IC103	B-4	PS102	A-2	ZD303	B-2	C6	B-6	C142	B-2	R30	C-5	R149	C-2	R316	C-2	VR102	B-4
IC104	B-3	PS103	D-1	ZD304	C-2	C7	A-6	C301	D-2	R32	C-5	R150	C-2	R317	D-2	VR103	B-3
IC105	B-2	PS104	B-1	**IC Protector**		C8	B-5	C302	D-1	R102	C-4	R151	C-2	R318	D-2	**Thermister**	
IC301	D-2	PS105	A-3	IP101	B-2	C9	C-5	C304	C-2	R105	C-4	R152	C-2	R319	D-1	TH1	C-5
IC302	C-2	**Diode**		IP102	B-3	C10	B-4	C306	D-2	R112	B-4	R154	A-4	R320	B-2	TH101	C-3
Transistor		D1	B-5	**Transformer**		C11	B-4	C307	C-1	R113	B-4	R155	B-4	R321	B-2		
Q1	B-4	D2	C-5	T1	C-4	C12	B-4	C308	C-2	R114	B-2	R156	A-4	R322	D-2		
Q2	B-4	D4	C-5	**Coil**		C13	B-5	C309	C-2	R115	C-2	R157	A-4	R323	D-2		
Q3	C-5	D6	C-5	L1	B-6	C14	B-4	C310	D-2	R116	C-2	R160	B-4	R324	D-2		
Q4	B-4	D7	D-4	L2	C-6	C16	D-4	C311	B-2	R117	C-2	R161	B-4	R325	C-2		
Q101	B-4	D8	C-5	L3	C-5	C17	B-5	C312	D-2	R118	C-2	R162	C-3	R326	B-2		
Q102	B-4	D101	C-3	L4	C-5	C18	B-4	C313	C-2	R119	C-2	R163	C-3	R327	C-2		
Q104	A-3	D103	C-3	L5	C-6	C19	B-4	C314	D-2	R120	B-4	R167	C-3	R328	C-2		
Q105	A-3	D105	D-4	L6	C-4	C20	D-4	C315	C-2	R121	B-4	R168	B-4	R329	C-2		
Q106	A-3	D106	D-3	L101	C-3	C22	B-5	C317	C-2	R122	B-2	R169	B-2	R330	C-2		
Q107	B-3	D107	D-3	L105	D-4	C23	C-5	**Resistor**		R123	B-4	R170	C-3	R331	C-2		
Q108	B-2	D108	D-3	L106	D-4	C102	C-4	R1	B-5	R124	B-4	R171	B-3	R332	C-2		
Q109	B-2	D112	C-3	L107	B-2	C104	B-2	R2	C-6	R125	B-4	R172	B-3	R333	C-2		
Q110	B-4	D113	B-4	L108	C-3	C106	D-3	R3	B-5	R126	B-4	R173	B-3	R334	C-2		
Q111	B-4	D114	A-3	L110	C-3	C107	C-3	R5	B-5	R127	C-2	R178	B-3	R335	D-2		
Q113	C-3	D117	B-4	L111	B-3	C109	C-3	R6	B-5	R128	B-4	R179	B-2	R336	C-2		
Q115	B-2	D118	B-4	L112	C-2	C112	B-3	R7	B-5	R129	C-2	R180	A-3	R337	C-2		
Q301	C-2	D121	D-3	L113	C-4	C114	B-4	R8	B-4	R130	C-2	R181	B-2	R338	D-2		
Q301	D-2	D122	D-3	L114	C-2	C115	B-4	R9	B-4	R131	B-4	R182	B-2	R339	C-2		
Q302	D-2	D125	B-2	L115	B-3	C116	C-4	R10	B-5	R132	B-4	R183	C-2	R340	D-2		
Q303	D-2	D301	D-2	L140	B-1	C118	B-4	R11	C-5	R135	C-2	R184	C-2	R341	C-2		
Q305	D-2	D302	D-2	L141	B-2	C119	C-2	R12	C-5	R136	A-3	R301	D-2	R346	C-2		
Q307	D-2	D304	C-2	L142	C-4	C120	B-4	R13	B-5	R137	A-3	R302	C-2	R347	C-2		
Q308	D-2	D305	C-2	L143	B-2	C121	B-4	R15	B-5	R138	A-3	R303	D-2	R348	C-2		
Q310	C-2	D306	D-2	**Fuse**		C122	B-3	R16	C-5	R139	A-3	R304	D-2	R349	C-1		
Q311	C-2	D307	C-2	F1	C-6	C123	C-2	R17	C-5	R140	B-2	R305	D-2	R350	C-2		
Q312	C-1	Z2	C-6	F101	B-3	C125	B-2	R20	B-4	R141	B-2	R306	D-2	R351	C-2		
Q313	C-2	ZD1	B-5	F102	C-3	C126	B-2	R21	B-4	R142	B-2	R307	D-2	R352	C-2		
Q314	C-2	ZD2	B-4	**Capacitor**		C127	B-3	R22	B-4	R143	B-2	R308	D-2	R353	C-2		
Q315	C-2	ZD101	C-2	C1	C-6	C128	A-4	R23	B-4	R144	B-3	R310	D-2	R354	C-2		
PC1	B-4	ZD102	C-2	C2	B-6	C129	C-3	R24	C-5	R145	B-4	R311	D-2	R355	C-2		



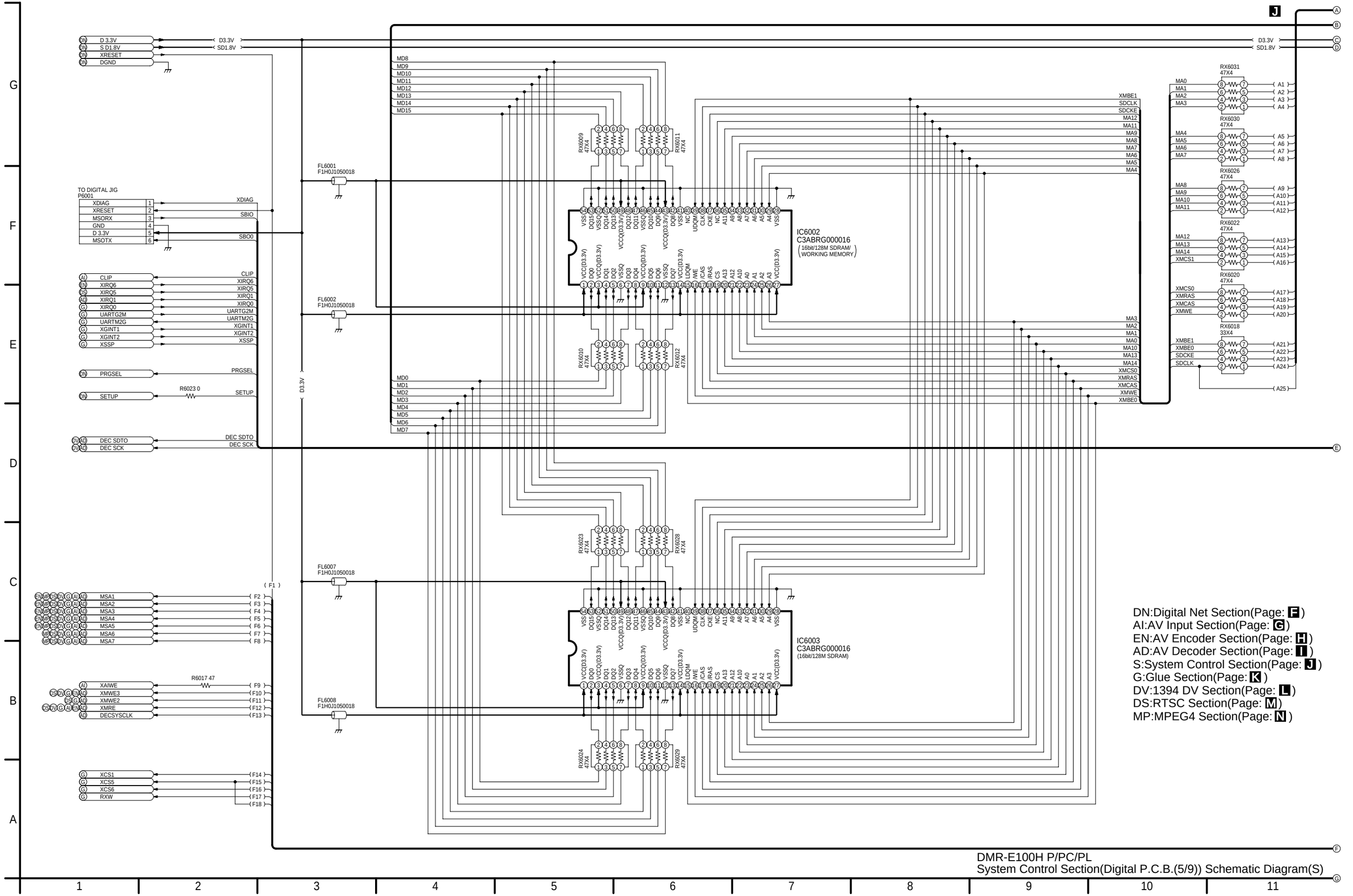
DMR-E100H P/PC/PL
Power Supply P.C.B.
(ETXMM426A4G)


T1
ETB28BF1R5A
POWER TRANSFORMER
IC1
FA13844N
(VOLTAGE CONTROL)
5V CONTROLLED BLOCK
(DC-DC CIRCUIT)
IC301
NJM2904M
IC302
NJM2904M
Q301
2SK3366
Q302
2SD602A
Q303
2SB710A
Q305
2SB1218A
Q307
2SD1328
Q308
2SB1218A
Q310
2SK3366
Q311
2SD602A
Q312
2SB710A
Q313
2SB1218A
Q314
2SD1328
Q315
2SB1218A
Q1
2SD601A
(POWER CTL.)
Q2
2SD601A
(POWER CTL.)
Q3
2SK2543
(POWER CTL.)
Q4
UN2213
(POWER CTL.)
PC1
ON3171
(FEED BACK)
AC SOCKET
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.
HOT
COLD
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E100H P/PC/PL
Main Power Supply
Schematic Diagram



DMR-E100H P/PC/PL
Main Power Supply
Schematic Diagram

DMR-E100H P/PC/PL
Main Power Supply
Schematic Diagram


D 3.3V
S D1.8V
XRESET
DGND
D3.3V
SD1.8V
MD8
MD9
MD10
MD11
MD12
MD13
MD14
MD15
FL6001
F1H0J1050018
FL6002
F1H0J1050018
FL6007
F1H0J1050018
FL6008
F1H0J1050018
RX6009
47X4
RX6011
47X4
RX6010
47X4
RX6012
47X4
RX6023
47X4
RX6028
47X4
RX6024
47X4
RX6029
47X4
IC6002
C3ABRG000016
(16bit/128M SDRAM/
WORKING MEMORY)
IC6003
C3ABRG000016
(16bit/128M SDRAM)
VSS
DQ15
VSSQ
DQ14
DQ13
DQ12
DQ11
DQ10
DQ9
DQ8
NC
UDQM
CLK
CKE
A11
A9
A8
A7
A6
A5
A4
VCC(D3.3V)
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
LDQM
/WE
/CAS
/RAS
CS
A13
A12
A10
A0
A1
A2
A3
XMBE1
SDCLK
SDCKE
MA12
MA11
MA9
MA8
MA7
MA6
MA5
MA4
MA3
MA2
MA1
MA0
MA10
MA13
MA14
XMCS0
XMRAS
XMCAS
XMWE
XMBE0
RX6031
47X4
RX6030
47X4
RX6026
47X4
RX6022
47X4
RX6020
47X4
RX6018
33X4
XMCS1
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
TO DIGITAL JIG
P6001
XDIAG
XRESET
MSORX
GND
D 3.3V
MSOTX
SBIO
SBO0
CLIP
XIRQ6
XIRQ5
XIRQ1
XIRQ0
UARTG2M
UARTM2G
XGINT1
XGINT2
XSSP
PRGSEL
SETUP
R6023 0
DEC SDTO
DEC SCK
R6017 47
XAIWE
XMWE3
XMWE2
XMRE
DECSYSCLK
XCS1
XCS5
XCS6
RXW
MSA1
MSA2
MSA3
MSA4
MSA5
MSA6
MSA7
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
F11
F12
F13
F14
F15
F16
F17
F18
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)
DMR-E100H P/PC/PL
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

J

C6001 0.1

R6001 3300

IC6001
C0EBE0000130
(RESET)
VDD VOUT DS VSS NC

FL6003 F1H0J1050018
FL6004 F1H0J1050018
FL6005 F1H0J1050018
FL6006 F1H0J1050018
FL6012 F1H0J1050018
FL6009 F1H0J1050018
FL6013 F1H0J1050018

D3.3V
SD1.8V

R6019 33K
R6006 10K
R6022 10K
R6007 47
R6008 47
R6009 47
R6002 3300
R6003 2200
R6004 2200
R6005 33K

RX6006 10KX4
RX6001 33KX4
RX6002 33KX4
RX6003 3.3KX4
RX6004 3.3KX4
RX6005 3.3KX4
RX6007 33X4
RX6008 33X4

CL6003
CL6001

R6010 1K
R6011 10K
R6015 1M
R6012 220
R6013 33
R6014 33

X6001
H2D330500001
(33MHz)

IC6004
MN103E0500YD
(MAIN CPU)

MD15 MD14 MD13 MD12 MD11 MD10 MD9 MD8 MD7 MD6 MD5 MD4 MD3 MD2 MD1 MD0

(A25) (A24) (A23) (A22) (A21) (A20) (A19) (A18) (A17) (A16) (A15) (A14) (A13) (A12) (A11) (A10) (A9) (A8) (A7) (A6) (A5) (A4) (A3) (A2) (A1)

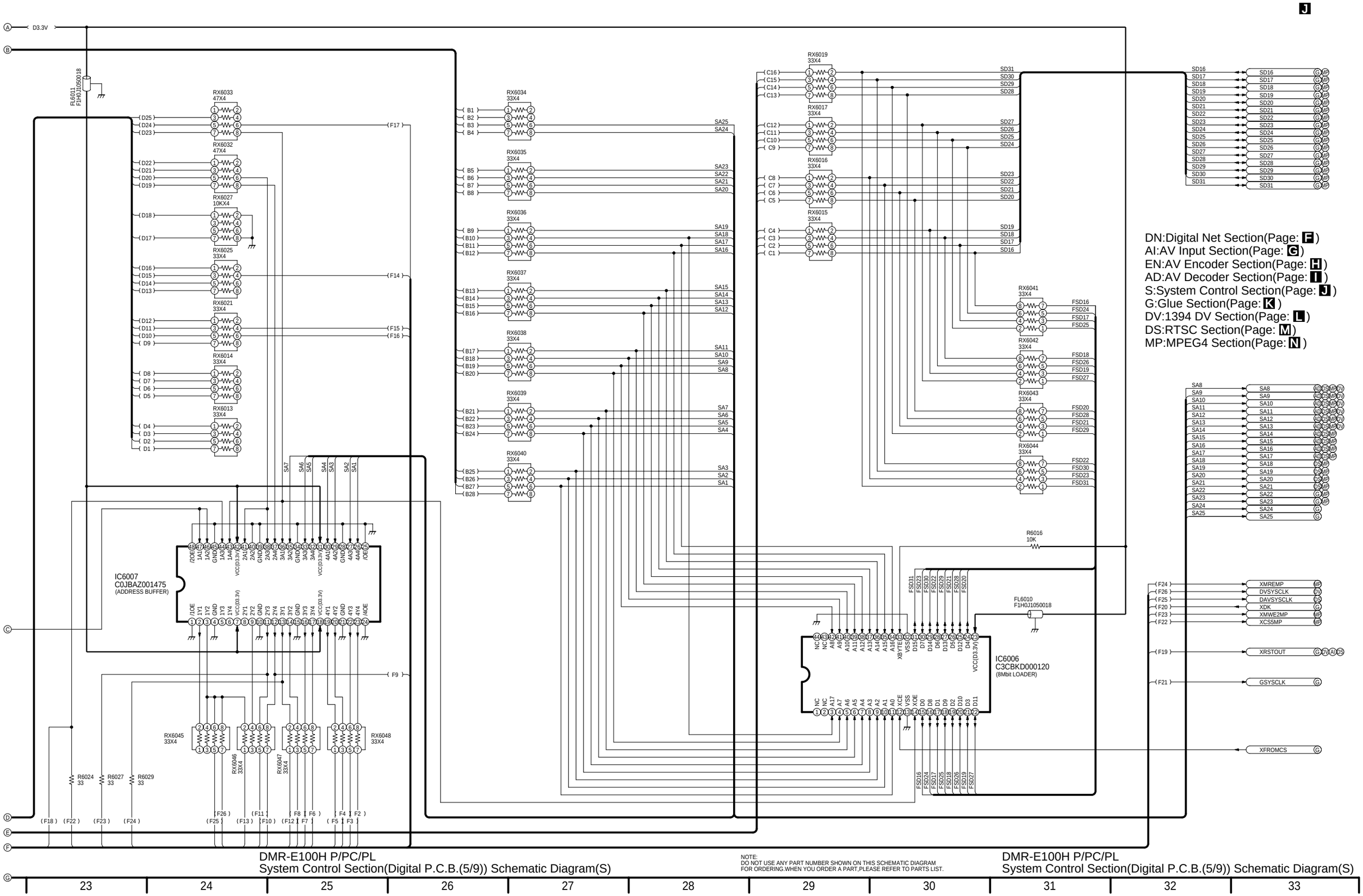
XDIAG CLIP SBI0 UARTG2M UARTM2G DEC SCK DEC SDTO SBO0

PRGSEL SETUP XIRQ0 XIRQ1 XSSP XGINT1 XIRQ5 XIRQ6 XGINT2

1 TRCD1
2 TRCD0
3 TRCCLK
4 TRCSTT
5 VSS
6 VDD(S D1.8V)
7 VDD(D3.3V)
8 MD15
9 MD14
10 MD13
11 MD12
12 MD11
13 MD10
14 MD9
15 MD8
16 VSS
17 VSS
18 VDD(D3.3V)
19 MD7
20 MD6
21 MD5
22 MD4
23 MD3
24 MD2
25 MD1
26 MD0
27 VSS
28 VDD(D3.3V)
29 SDCKI
30 SDCLK
31 SDCKE
32 XMBE0
33 XMBE1
34 XMWE
35 XMCAS
36 XMRAS
37 XMCS0
38 XMCS1
39 VSS
40 VDD(S D1.8V)
41 VDD(D3.3V)
42 MA14
43 MA13
44 MA12
45 MA11
46 MA10
47 MA9
48 MA8
49 MA7
50 MA6
51 MA5
52 MA4
53 MA3
54 MA2
55 MA1
56 MA0
57 VSS
58 VSS
59 VDD(D3.3V)
60 VSS
61 TRCD2
62 TRCD3
63 TRCD4
64 TRCD5
65 TRCD6
66 TRCD7
67 VSS
68 TDO
69 TDI
70 TCK
71 EXTRG
72 TRSTMOD
73 TMS
74 VDD(D3.3V)
75 VDD(S D1.8V)
76 VSS
77 PIO20
78 PIO21
79 PIO22
80 PIO23
81 PIO24
82 PIO25
83 PIO26
84 PIO27
85 VSS
86 SBI0
87 SBI1
88 SBI2
89 SBO2
90 SBT2
91 XRESET
92 XRSTOUT
93 PIO17
94 PIO16
95 PIO15
96 PIO14
97 PIO13
98 PIO12
99 PIO11
100 PIO10
101 XIRQ0
102 XIRQ1
103 XIRQ2
104 XIRQ3
105 XIRQ4
106 XIRQ5
107 XIRQ6
108 XIRQ7
109 XNMI
110 VDD(D3.3V)
111 VDD(S D1.8V)
112 VSS
113 SD0
114 SD1
115 SD2
116 SD3
117 SD4
118 SD5
119 SD6
120 SD7
121 VDD(D3.3V)
122 VDD(S D1.8V)
123 VSS
124 SD8
125 SD9
126 SD10
127 SD11
128 SD12
129 SD13
130 SD14
131 SD15
132 VDD(D3.3V)
133 VSS
134 VSS
135 SD16
136 SD17
137 SD18
138 SD19
139 SD20
140 SD21
141 SD22
142 SD23
143 VSS
144 SD24
145 SD25
146 SD26
147 SD27
148 SD28
149 SD29
150 SD30
151 SD31
152 VDD(D3.3V)
153 VDD(S D1.8V)
154 VSS
155 XSDK
156 XCS7
157 XCS6
158 XCS5
159 XCS4
160 XCS3
161 XCS2
162 XCS1
163 XCS0
164 VDD(D3.3V)
165 VSS
166 PIO02
167 PIO01
168 PIO00
169 TCPOUT
170 PVDD
171 PVSS
172 XSWE3
173 XSWE2
174 XSWE1
175 XSWE0
176 XSRE
177 SRXW
178 XSAS
179 OSCI
180 OSCO
181 VSS
182 SYSCLK
183 VDD(D3.3V)
184 VDD(S D1.8V)
185 VSS
186 SA0
187 SA1
188 SA2
189 SA3
190 SA4
191 SA5
192 SA6
193 SA7
194 SA8
195 SA9
196 SA10
197 SA11
198 SA12
199 SA13
200 SA14
201 SA15
202 VDD(D3.3V)
203 VDD(S D1.8V)
204 VSS
205 SA16
206 SA17
207 SA18
208 SA19
209 SA20
210 SA21
211 SA22
212 SA23
213 SA24
214 SA25
215 SA26
216 SA27
217 ND
218 ND
219 ND
220 ND
221 ND
222 ND
223 ND
224 ND
225 ND
226 ND
227 ND
228 ND
229 ND
230 ND
231 ND
232 ND
233 ND
234 ND
235 ND
236 ND
237 ND
238 ND
239 ND

(B1) (B2) (B3) (B4) (B5) (B6) (B7) (B8) (B9) (B10) (B11) (B12) (B13) (B14) (B15) (B16) (B17) (B18) (B19) (B20) (B21) (B22) (B23) (B24) (B25) (B26) (B27) (B28)

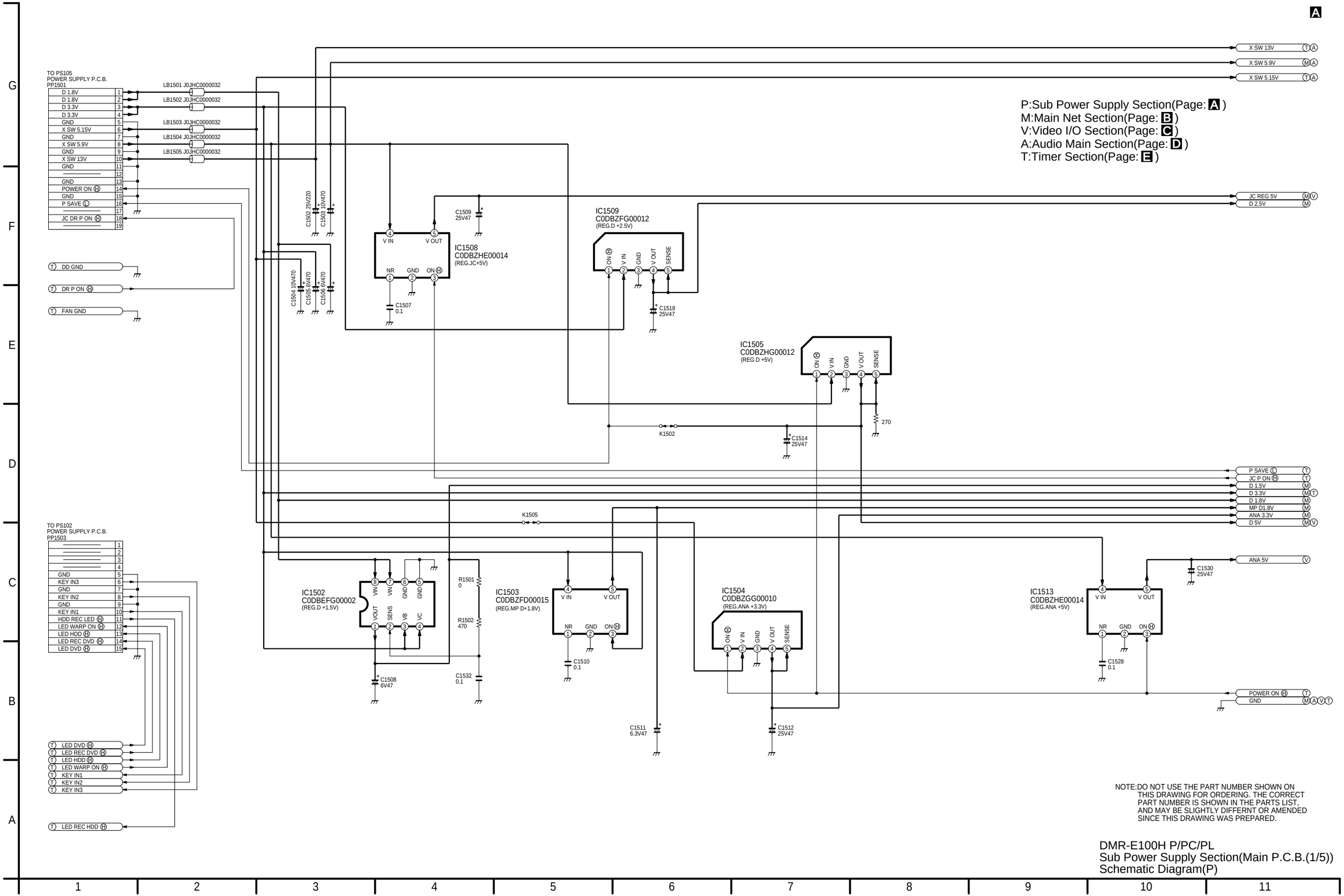
(D1) (D2) (D3) (D4) (D5) (D6) (D7) (D8) (C1) (C2) (C3) (C4) (C5) (C6) (C7) (C8) (C9) (C10) (C11) (C12) (C13) (C14) (C15) (C16) (F20) (D9) (D10) (D11) (D12) (D13) (D14) (D15) (D16) (D17) (D18) (D19) (D20) (D21) (D22) (D23) (D24) (D25) (F21) (F1) (F19)



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H P/PC/PL
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

DMR-E100H P/PC/PL
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)


A
TO PS105
POWER SUPPLY P.C.B.
PP1501
D 1.8V 1
D 1.8V 2
D 3.3V 3
D 3.3V 4
GND 5
X SW 5.15V 6
GND 7
X SW 5.9V 8
GND 9
X SW 13V 10
GND 11
12
GND 13
POWER ON H 14
GND 15
P SAVE L 16
17
JC DR P ON H 18
19
LB1501 J0JHC0000032
LB1502 J0JHC0000032
LB1503 J0JHC0000032
LB1504 J0JHC0000032
LB1505 J0JHC0000032
T DD GND
T DR P ON H
T FAN GND
C1502 25V220
C1503 10V470
C1504 10V470
C1505 6V470
C1506 6V470
IC1508
C0DBZHE00014
(REG.JC+5V)
V IN
V OUT
NR
GND
ON H
C1507 0.1
C1509 25V47
IC1509
C0DBZFG00012
(REG.D +2.5V)
ON H
V IN
GND
V OUT
SENSE
C1518 25V47
IC1505
C0DBZHG00012
(REG.D +5V)
270
K1502
C1514 25V47
X SW 13V T A
X SW 5.9V M A
X SW 5.15V T A
JC REG 5V M V
D 2.5V M
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
P SAVE L T
JC P ON H T
D 1.5V M
D 3.3V M T
D 1.8V M
MP D1.8V M
ANA 3.3V M
D 5V M V
TO PS102
POWER SUPPLY P.C.B.
PP1503
1
2
3
4
GND 5
KEY IN3 6
GND 7
KEY IN2 8
GND 9
KEY IN1 10
HDD REC LED H 11
LED WARP ON H 12
LED HDD H 13
LED REC DVD H 14
LED DVD H 15
T LED DVD H
T LED REC DVD H
T LED HDD H
T LED WARP ON H
T KEY IN1
T KEY IN2
T KEY IN3
T LED REC HDD H
K1505
IC1502
C0DBEFG00002
(REG.D +1.5V)
VIN
VIN
GND
GND
VOUT
SENS
VB
VC
C1508 6V47
R1501 0
R1502 470
C1532 0.1
IC1503
C0DBZFD00015
(REG.MP D+1.8V)
C1510 0.1
IC1504
C0DBZGG00010
(REG.ANA +3.3V)
C1511 6.3V47
C1512 25V47
IC1513
C0DBZHE00014
(REG.ANA +5V)
C1528 0.1
C1530 25V47
ANA 5V V
POWER ON H T
GND M A V T
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.
DMR-E100H P/PC/PL
Sub Power Supply Section(Main P.C.B.(1/5))
Schematic Diagram(P)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

DP7501
A2BD00000064
DISPLAY

TL7501

TL7538

TL7505

TL7507

TL7504

IC7501
C2BBGF000419
(TIMER)

IC7502
C0EBJ0000143
(P FAIL L OUT)

X7502
H0D419400020
(4.194MHz)

L7502 22u
L7503
L7504
CL7501

Q7510
2SD0601A0L
(DISPLAY DRIVE)

Q7511
2SD0601A0L
(DISPLAY DRIVE)

K7501
K7503
K7504

TO P7001
FRONT(L)P.C.B.
P7501

IR	1
N SW 5V	2
KEYIN2(L)	3
KEYIN2(R)	4
KEYIN3(L)	5
KEYIN3(R)	6
	7
	8
	9
GND	10
L2 IN(R)	11
GND	12
L2 IN(L)	13
GND	14
L2 C SDET	15
LINE 2V IN	16
GND	17
CPN 2C IN	18
GND	19
CPN 2Y IN	20

P KEYIN3
P KEYIN2
V L2 IN CPNY
V L2 IN CPNC
V L2 IN CPS
V L2 C SDET
A L2 IN L
A L2 IN R
M SBMTP
M SBPTM
M SCLK
P KEYIN1
V L123 SWIDE
V VIDEO MUTE L
V EXT SYNC H
A XTMUTE
M XINTM
M XINTP
M XMPREQ
A X SW 5.15V

R7590 100
R7501 10K
R7502 68K
R7503 10K
R7504 68K
R7567 68K
R7568 68K
R7569 68K
R7570 68K
R7556 68K
R7566 68K
R7571 68K
R7572 68K
R7573 68K
R7517 VWJ0023=5
R7526 100
R7527 100
R7528 220
R7525 47K
R7516 47K
R7515 47K
C7506 10P
C7505 10P
C7504 10P
R7529 8200
R7530 8200
R7531 8200
C7519 0.1
R7532 100
R7533 100
R7534 100
C7507 0.01
C7508 0.01
C7517 0.01
R7541 47K
R7537 22K
C7502 0.01
C7503 0.1
R7540 100
R7536 4700
R7554 47K
C7523 0.01
R7543 47K
R7542 47K
C7539 100P
C7534 10P
C7536 12P
R7548 100
R7549 100
R7586 100
R7547 2200
C7535 0.1
R7546 47K
R7505 4700
R7565 100K
R7574 100K
R7575 100K
R7576 100K
R7577 100K
R7578 100K
R7580 100K
R7581 100K
R7582 100K
R7544 220
R7506 100
R7507 100
R7508 100
R7509 100
R7510 100
R7513 220
R7514 220
R7587 220
R7559 100
R7558 100

SEG1 SEG2 SEG3 SEG4 SEG5 SEG6 SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 SEG16 SEG17 SEG18 SEG19 SEG20 SEG21 SEG22 SEG23 SEG24 SEG25 SEG26 SEG27 SEG28 SEG29 SEG30

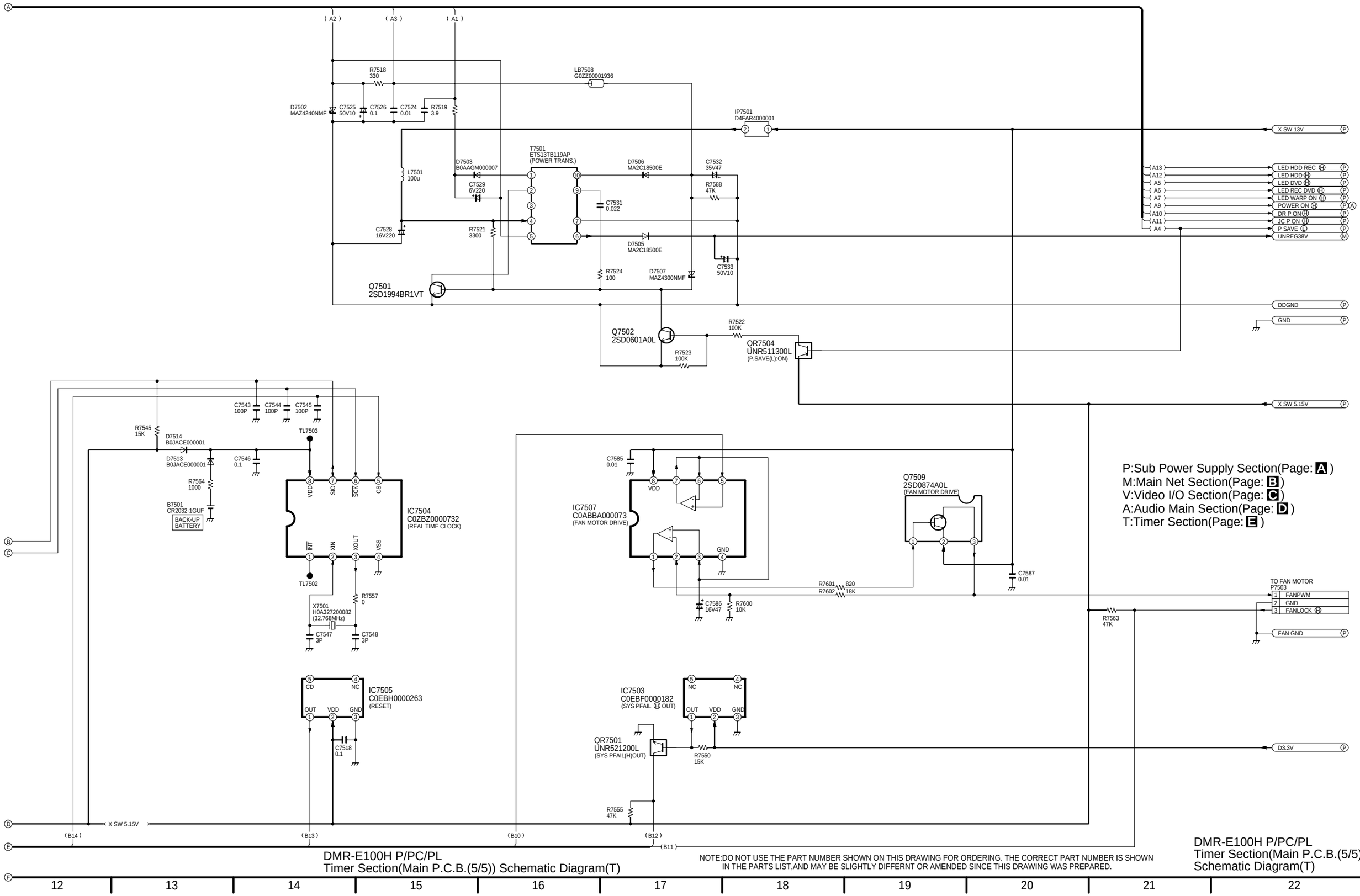
DGT8 DGT7 DGT6 DGT5 DGT4 DGT3 DGT2 DGT1 VEE TBUS RXD TBUS TXD TBUS CLK POW LED H BS ANT POW H VIDEO MUTE2 L FAN DC OUT GND(AD) 5V(AD) KEYIN3 KEYIN2(L)

SEG31 SEG32 SEG33 P SAVE L DVD LED H DVD REC LED H HDD LED2 H LED WARP ON H TEST2 H HDD REC LED2 H PROG12V ON H POWER ON H DR P ON H JC P ON H REAL TIME SI REAL TIME SO REAL TIME CLK PROG L XMPREQ(TBUS) SUT CLOCK

KEYIN1 BS LEVEL L1 SWIDE TV ANT POW L DC L CH DC R CH BOOSTER H VIDEO MUTE L FAN LOCK H SYS P FAIL H HDD REC LED H HDD LED H XFWE NC P FAIL L EXT SYNC H PROG 12V RESET L REAL TIME CS AUDIO MUTE L GND 4.194MHz IN 4.194MHz OUT 5V(D) XINTM(TBUS) XINTM OUT XINTP OUT RST UART SW UART REMOCON

VCC VOUT NC SUB GND

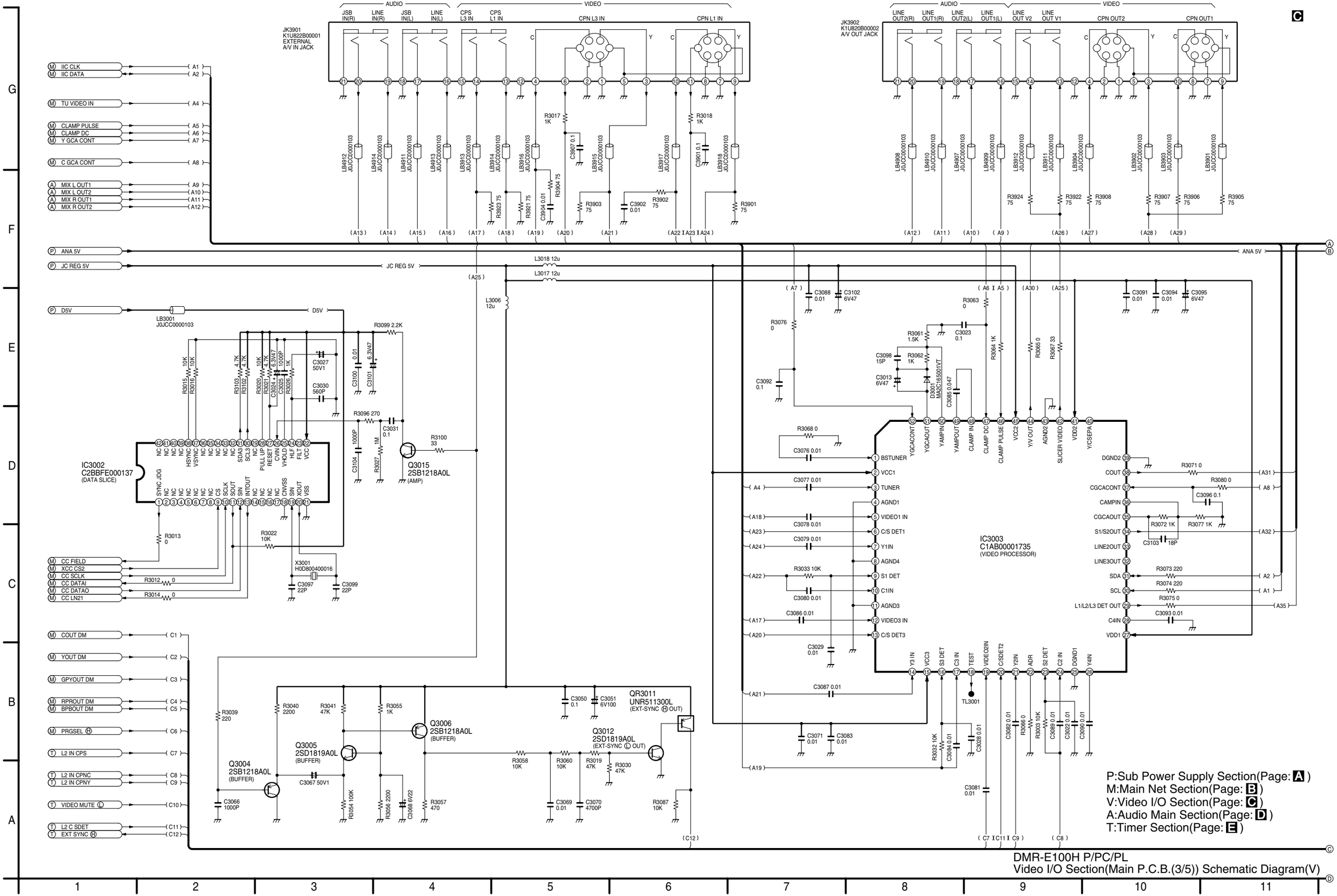
DMR-E100H P/PC/PL
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)



DMR-E100H P/PC/PL
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Timer Section(Main P.C.B.(5/5))
Schematic Diagram(T)



P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

DMR-E100H P/PC/PL
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

C

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

JK3903
K1U407B00003
RED BLUE GREEN
COMPONENT VIDEO OUT (525P/525I)
DIGITAL AUDIO OUT
GND VCC IN
LB3908 J0JCC0000103
LB3909 J0JCC0000103
LB3910 J0JCC0000103
R3920 75
R3926 75
R3927 75
C4904 0.1
C4903 6.3V47
L4901 22u
LB4901 330
LB4902 J0JGC0000020
C4905 0.1
VDD
IC4901
C0JBAB000173
(DIGITAL AUDIO OUT)
R4903 0
IECOUT
(A36) (A37) (A38)
ANA 5V
R3108 10K
C4902 0.1
C4901 6.3V47
L3003 12u
C3012 0.01
C3017 0.01
C3008 0.01
C3009 6V47
R3007 1K
C1
L3001 12u
L3002 22u
R3006 100
R3004 560
C3004 47P
C3007 39P
R3005 10K
Q3001 2SB1218A0L (BUFFER)
R3011 1K
C2
L3004 12u
L3005 22u
R3010 100
R3008 560
C3010 68P
C3011 39P
R3009 10K
Q3002 2SB1218A0L (BUFFER)
R3024 1K
C3
L3010 4.7u
L3014 12u
R3028 100
R3025 560
C3018 22P
C3020 33P
R3029 10K
Q3003 2SA153200L (BUFFER)
QR3010 UNR521300L (PROGRESSIVE)
QR3001 UNR521100L (PROGRESSIVE)
C3001 47P
Q3011 2SC393000L (PROGRESSIVE)
R3107 47K
R3106 1K
L3023 12u
C3019 33P
QR3009 UNR521300L (PROGRESSIVE)
QR3002 UNR521300L (PROGRESSIVE)
QR3007 UNR521300L (PROGRESSIVE)
R3043 1K
R3044 150
R3045 150
Q3008 2SD1819A0L (BUFFER)
L3015 4.7u
C3002 47P
C3072 47P
R3046 2200
QR3004 UNR521100L (PROGRESSIVE)
C5
L3019 6.8u
L3020 12u
R3042 100
R3001 560
C3005 56P
C3016 22P
C3006 39P
R3002 10K
Q3007 2SB1218A0L (BUFFER)
QR3008 UNR521300L (PROGRESSIVE)
R3048 1K
R3049 150
R3050 150
Q3010 2SD1819A0L (BUFFER)
C4
L3021 6.8u
L3022 12u
R3047 100
R3052 560
C3074 56P
C3014 22P
C3075 39P
R3053 10K
Q3009 2SB1218A0L (BUFFER)
L3016 4.7u
C3003 47P
C3073 47P
R3051 2200
QR3005 UNR521100L (PROGRESSIVE)
QR3006 UNR521300L (PROGRESSIVE)
(C6)
(C10)

(A27) (A32) (A29) (A26) (A28) (A38) (A37) (A36)
R3084 9.1K
R3085 9.1K
R3070 0
R3086 0
C3906 0.01
C3905 0.01
C3057 0.1
C3055 6V1000
C3056 6V100
C3058 56P
L3012 4.7u
C3059 6V1000
C3060 6V100
C3061 6V1000
C3062 6V100
C3063 6V330
C3064 6V330

(A16) L1 IN L (A)
(A15) L3 IN L (A)
(A14) L1 IN R (A)
(A13) L3 IN R (A)
(A31) CPNCIN DM (M)
(A30) V YIN DM (M)
(A35) L123 SWIDE (T)

IC3005
C9ZB00000377
(VIDEO DRIVE)
COUT TEST MIXOUT MIXFB GND YTRAP GND YOUT YFB GND PYOUT PYFB GND POUT POUT
75Ω 6dB
1.5-6M BPF
CLAMP
6M LPF
CLAMP
12M LPF
6M LPF
6M LPF
CTRAP MUTE1 CIN 20K GND YIN VCC GND PYIN GND PYTRAP VCC PBIN 20K GND PBIN 20K MUTE2 PTRAP
L3007 4.7u
C3043 56P
K3001
L3008 22u
C3047 0.01
C3046 6V47
C3044 0.1
C3045 1
C3048 1
L3009 4.7u
C3049 15P
C3052 6V47
C3053 6V47

GND (P)
AU GND (A)

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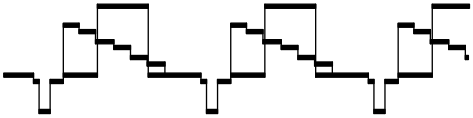
DMR-E100H P/PC/PL
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

DMR-E100H P/PC/PL
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

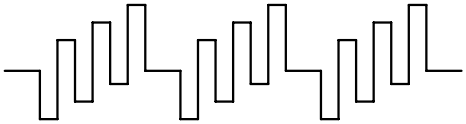
12 13 14 15 16 17 18 19 20 21 22

WF No. PP9701-15 (REC/PLAY)



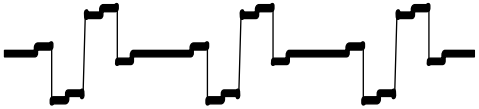
1.1Vp-p(20usec/div)

WF No. PP9701-16 (REC/PLAY)



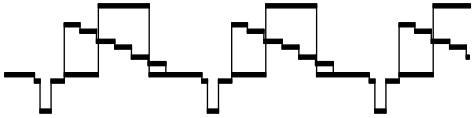
0.6Vp-p(20usec/div)

WF No. PP9701-18 (REC/PLAY)



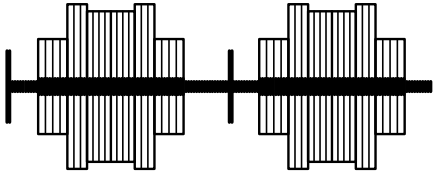
0.6Vp-p(20usec/div)

WF No. PP9701-20 (REC/PLAY)



1.1Vp-p(20usec/div)

WF No. PP9701-22 (REC/PLAY)



0.7Vp-p(20usec/div)

WF No. PP9701-28 (REC/PLAY)

1.9Vp-p(20usec/div)

WF No. PP9702-12 (REC/PLAY)

1.8Vp-p(1msec/div)

WF No. PP9702-14 (REC/PLAY)

1.8Vp-p(1msec/div)

WF No. PP9702-19 (REC/PLAY)

1.8Vp-p(1msec/div)

WF No. PP9702-21 (REC/PLAY)

1.8Vp-p(1msec/div)

Ref No.	PS9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.6	3.2	0	4.9	4.9	0	0	0	-	0	-	0	0	0	1.1	1.0	0	1.0	0	1.1
PLAY	1.6	3.2	0.2	4.9	4.9	0	0	0	-	0	-	0	0	0	1.1	1.0	0	1.0	0	1.1
STOP	1.6	3.2	0.2	4.9	4.9	0	0	0	-	0	-	0	0	0	1.1	1.0	0	1.0	0	1.1

Ref No.	PS9001																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	0	1.5	0	1.7	1.8	0.1	0	1.6	0	1.9										
PLAY	0	1.5	0	1.7	1.7	0.1	0	1.6	0	1.9										
STOP	0	1.5	0	1.7	1.7	0.1	0	1.6	0	1.9										

Ref No.	PS9002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	5.0	3.2	5.7	1.5	1.8	1.8	0	4.7	0	3.1	0	2.5	0	2.5	0	0	1.6	0	2.4	0
PLAY	5.0	3.2	5.7	1.5	1.8	1.8	0	4.7	0	3.1	0	2.5	0	2.5	0	0	1.6	0	2.4	0
STOP	5.0	3.2	5.7	1.5	1.8	1.8	0	4.7	0	3.1	0	2.5	0	2.5	0	0	1.6	0	2.4	0

Ref No.	PS9002																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	2.5	5.0	2.2	0	0	1.8	1.5	5.7	3.2	5.0										
PLAY	2.5	5.0	2.2	0	0	1.8	1.5	5.7	3.2	5.0										
STOP	2.5	5.0	2.2	0	0	1.8	1.5	5.7	3.2	5.0										

Ref No.	PS9003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	4.8	5.0	4.7	3.2	5.0	-	5.0	0.1	5.0	0.1	2.5	0	0	3.2	3.3	4.9	1.8	2.5	0
PLAY	0	4.8	5.0	4.7	3.2	5.0	-	5.0	0.1	5.0	0.1	2.5	0	0	3.2	3.3	4.9	1.8	2.5	0
STOP	0	4.8	5.0	4.7	3.2	5.0	-	5.0	0.1	5.0	0.1	2.5	0	0	3.2	3.3	4.9	1.8	2.5	0

Ref No.	PS9003																			
MODE	21	22	23	24	25	26	27	28	29	30										
REC	5.0	5.0	5.0	-	5.0	4.8	5.0	-	-	-										
PLAY	5.0	5.0	5.0	-	5.0	4.8	5.0	-	-	-										
STOP	5.0	5.0	5.0	-	5.0	0.2	5.0	-	-	-										

:REC SIGNAL

:PB SIGNAL

IC3005
(VIDEO DRIVER)

FROM DIGITAL P.C.B.

PS9001 PP9701 22 — C OUT DM — Q3001 AMP — CIN (3) — 1.5-6M BPF — CTRAP
PS9001 PP9701 20 — Y OUT DM — Q3002 AMP — YIN (5) — 6M LPF — YTRAP
PS9001 PP9701 15 — GPY YOUT DM — Q3003 AMP — PYIN (8) — 12M LPF — PYTRAP
PS9001 PP9701 16 — BPB CBOUT DM — Q3007,3008 AMP — PbIN (12) — 6M LPF
PS9001 PP9701 18 — RPR CROUT DM — Q3009,3010 AMP — PrIN (14) — 6M LPF

6dB — 75Ω — COUT (32) — CPN C OUT
6dB — 75Ω — MIXOUT (30) — CPS V OUT
6dB — 75Ω — YOUT (25) — CPN Y OUT
6dB — 75Ω — PYOUT (22) — GPC Y OUT
6dB — 75Ω — PbOUT (19) — BPC B OUT
6dB — 75Ω — PrOUT (17) — RPC R OUT

MUTE1 (2)
MUTE2 (15)
VIDEO MUTE (L) IC7501- (8) FROM TIMER

JK3902
A/V OUT
JACK

(13) VIDEO1
(14) VIDEO2
LINE OUT

(9) Y
(10) C — S1/S2 OUT 1
(3) Y
(4) C — S1/S2 OUT 2

IC3003
(VIDEO PROCESSOR)

L1/L2/L3/DET OUT (29) — L123 SWIDE IC7501- (3) — TO TIMER
S1/S2 OUT (34)

JK3903
COMPONENT
VIDEO OUT

(20) Y(GREEN)
(19) PB (BLUE)
(18) PR (RED)

TU7401
U/V TUNER PACK

VIDEO OUT (18) — Q7401 AMP — TU VIDEO IN — (3) TUNER VIDEO IN

JK3901
EXTERNAL A/V IN
JACK

L3 VIDEO IN (14) — JSB V IN — (12) VIDEO3 IN
L1 VIDEO IN (13) — LINE 1V IN — (5) VIDEO1 IN
C (4) — MUSE C IN — (16) S3 DET — (17) C3 IN
Y (3) — MUSE Y IN — (14) Y3 IN
L3 S-VIDEO IN (6) — C/S DET3 — (13) C/S DET3
(9) S1 DET
C (10) — CPN 1C IN — (10) C1 IN
Y (9) — CPN 1Y IN — (7) Y1 IN
L1 S-VIDEO IN (11) — C/S DET1 — (6) C/S DET1

TO/FROM DIGITAL P.C.B. (GLUE SEC.)
IIC CLOCK (30)
IIC DATA (31)
IIC BUS I/F

JK7001
FRONT JACK
L2

VIDEO IN (7) — P7001 P7501 16 — L2 IN CPS — (19) VIDEO2 IN
(23) S2 DET
C (12) — P7001 P7501 18 — L2 IN CPNC — (24) C2 IN
Y (11) — P7001 P7501 20 — L2 IN CPNY — (21) Y2 IN
S-VIDEO IN (13) — P7001 P7501 15 — L2 C SDET — (20) C/S DET2

SLICER VIDEO (42) — Q3004-Q3006 AMP — Q3012,QR3011 EXT SYNC (H) OUT — EXT SYNC (H) IC7501- (16) — TO TIMER

IC3002
(DATA SLICE)

Q3015 AMP — (26) CVIN
X3001 14.3MHz — (19) SIN — (20) XOUT
SOUT (11) — CC DATA1 — PP9703 PS9003 11
CS (9) — XCC CS2 — PP9703 PS9003 10
SIN (12) — CC DATAO — PP9703 PS9003 9
SCLK (10) — CC SCLK — PP9703 PS9003 8

TO/FROM DIGITAL P.C.B.

COUT (38) — CPNCIN DM — PP9701 PS9001 30
Y/V OUT (44) — V YIN DM — PP9701 PS9001 28
CLAMP DC (47) — CLAMP DC — PP9701 PS9001 25

DMR-E100H P/PC/PL
Analog Video Block Diagram

:REC SIGNAL :PB SIGNAL

TU7401
U/V TUNER PACK
L OUT 27
R OUT 26
TUNER L
TUNER R

IC4002
(AUDIO CH SELECTOR SW)
12 TUNER L
1 TUNER R
A IN SEL1 9
A IN SEL0 10

QR4010
A.SEL1 SW
Ⓛ OUT
QR4011
A.SEL0 SW
Ⓛ OUT

A IN SEL1
A IN SEL0
PP9702 PS9002 10
PP9702 PS9002 11
130 ODATA10
129 ODATA9

IC6701
(GLUE)
DIGITAL P.C.B.

JK3901
EXTERNAL A/V JACK
AUDIO IN
L L1 16
L L3 17
R L1 19
R L3 20
L1 IN L
L3 IN L
L1 IN R
L3 IN R
11 L1 IN L
14 L3 IN L
4 L1 IN R
5 L3 IN R

IC4003
(BUFFER)
AUDIO L 13
AUDIO R 3
6 7
2 1
A ADC L
A ADC R
PP9702 P9002 12
PP9702 P9002 14
TO DIGITAL P.C.B.

JK7001
FRONT A/V JACK
AUDIO IN
L/MONO 5
2
R 3
P7001 P7501 13
P7001 P7501 11
L2 IN L
L2 IN R
15 L2 IN L
2 L2 IN R

FROM TIMER
AUDIO MUTE Ⓛ IC7501- 20
XTMUTE
QR4002,4005 SWITCH
Q4004 MUTE Ⓗ OUT
PS9002 PP9702 23
XDMUTE
QR4003,4004 SWITCH

D4005
D4006
Q4007 MUTE
Q4006 MUTE
Q4009 MUTE
Q4008 MUTE

IC4009
(BUFFER)
FROM DIGITAL P.C.B.
PS9002 PP9702 21
MIX L OUT DM
PS9002 PP9702 19
MIX R OUT DM
6 7
2 1

MIX L OUT1
MIX L OUT2
MIX R OUT1
MIX R OUT2

JK3902
A/V OUT REAR JACK
16 OUT1-L
17 OUT2-L
19 OUT1-R
20 OUT2-R
AUDIO

IC4901
(DIGITAL AUDIO OUT)
PS9002 PP9702 17
IECOUT
2 4

JK3903
DIGITAL AUDIO OUT
(PCM/BITSTREAM)
23 OPTICAL

DMR-E100H P/PC/PL
Analog Audio Block Diagram

Ref No.	QR7801				QR7802				QR7803				QR7804				QR7805			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	3.5	0		0	0	4.9		0	0	4.9		0	3.5	0		0	3.8	0	
PLAY	0	3.5	0		0	0	4.9		0	3.9	0		0	3.5	0		0	3.8	0	
STOP	0	3.5	0		0	0	4.9		0	3.9	0		0	3.5	0		0	3.8	0	

POWER SUPPLY P.C.B.

MAIN P.C.B.

AC SOCKET
P1

F1

Z2
SURGE SUPPRESSOR AND SURGE ABSORBER

D1
C9
RECTIFIER

T1
POWER TRANSFORMER

P2 S3 S2 S4 P1 B1 B2 S1

IC1
(CONSTANT VOLTAGE CTL.)
1 0 CURRENT DET.
DRAIN 6
F/B 2
VCC 7

VR102
+5.9V

PC1
FEED BACK

IC102
ERROR VOLTAGE DET.

DC-DC CIRCUIT
DR1 REG. D+1.8V SO1
DR2 REG. D+3.3V SO2
VCC 2 1 IP101
Ⓛ:ON
Q108

Ⓗ:ON
Q109

D+1.8V — PS105 PP1501 1,2 — Ⓐ
D+3.3V — PS105 PP1501 3,4 — Ⓑ
POWER ON Ⓗ — PS105 PP1501 14 — Ⓒ
Ⓓ
X SW+5.9V — PS105 PP1501 8 — Ⓔ
X SW+5.15V — PS105 PP1501 6

Q113
(REG.+5.15V)
F102
D VIN VOUT S
Ⓗ:ON G

VR103
XSW+5V

IP102
1 2

IC104
K R A

IC105
(REG.+12V)
1 VIN VOUT 2
Ⓗ:ON 4

DR+12V — PS104 1, PS104 4 — TO DVD RAM

Q115
Ⓛ:ON

Q105

X SW+13V — PS105 PP1501 10 — Ⓕ

Q107
(REG.+V)
D VIN VOUT S
Ⓗ:ON G

DR+5V — PS101 4, PS101 1 — TO HDD

Q106
Ⓛ:ON

Q104

JC DR P ON Ⓗ — PS105 PP1501 18 — DR POWER Ⓗ IC7501- ㊳ — FROM TIMER

HOT

COLD

DMR-E100H P/PC/PL
Power Supply Block Diagram

MAIN P.C.B.

DIGITAL P.C.B.

Ⓐ D+1.8V

IC1502
(REG.D+1.5V)
⑦ VIN
⑧ VIN
VOUT ①

D+1.8V → PP9702 PS9002 5,6,26 → D+1.8V(PSC 8)

REG.D+1.5V → PP9702 PS9002 4,27 → REG. D+1.5V(PSC 9)

Ⓑ D+3.3V

D+3.3V → PP9703 PS9003 15,16 → D+3.3V(PSC 10)

IC1509
(REG.D+2.5V)
② VIN
VOUT ④
Ⓗ:ON ①

IC1503
(REG.MP D+1.8V)
④ VIN
VOUT ⑤
③ Ⓗ:ON

IC7503
(SYS PFAIL Ⓗ OUT)
② VDD
OUT ①

SYS PFAIL Ⓛ
IC7501- ⑩
→ TO TIMER SEC.

QR7501
(SYS PFAIL Ⓛ OUT)

IC9001
(REG.SD+1.8V)
④ VIN
VO ⑤
Ⓗ:ON ③

REG. SD+1.8V(PSC 11)

Ⓒ POWER ON Ⓗ

REG.MP D+1.8V → PP9703 PS9003 18 → REG.MP D+1.8V(PSC 12)

Ⓓ X SW+5.15V → X SW+5.15V(PSC 1)

REG.D+2.5V → PP9703 PS9003 12,19 → REG.D+2.5V(PSC 13)

K1505

IC1504
(REG.ANA+3.3V)
② VIN
VOUT ④
Ⓗ:ON ①

REG.ANA+3.3V → PP9702 PS9002 2,29 → REG.ANA+3.3V(PSC 14)

REG.ANA+5V → PP9703 PS9003 17 → REG.ANA+5V(PSC 3)

Ⓔ X SW+5.9V

X SW+5.9V → PP9702 PS9002 3,28

IC50011
(REG.DAC+3.3V)
① VIN
VOUT ⑥
Ⓗ:ON ③

REG.DAC+3.3V(PSC 15)

IC4011
(REG.AU+5V)
② VIN
VOUT ④
Ⓗ:ON ①

JC REG.+5V(PSC 2)

REG.AU+5V → PP9702 PS9002 22 → REG.AU+5V(PSC 16)

QR4006,4012

IC9002
(REG.D+3V)
① VIN
VOUT ⑥
Ⓗ:ON ③

REG.D+3V(PSC 17)

IC1508
(REG.JC+5V)
④ VIN
VOUT ⑤
Ⓗ:ON ③

JC REG.+5V
TU7401- ⑦, ⑬
→ TO MAIN NET SEC.

JC POWER ON Ⓗ
IC7501- ㊲
→ FROM TIMER SEC.

IC50015
(REG.D+3.3V)
① VIN
VOUT ⑥
Ⓗ:ON ③

REG.D+3.3V(PSC 18)

IC1513
(REG.ANA+5V)
④ VIN
VOUT ⑤
Ⓗ:ON ③

REG.ANA+5V(PSC 3)

IC1505
(REG.D+5V)
② VIN
VOUT ④
Ⓗ:ON ①

REG.D+5V(PSC 5)

REG.D+5V → PP9702 PS9002 1,30

POWER ON Ⓗ
IC7501- ㊴
→ FROM TIMER SEC.

Ⓕ X SW+13V → X SW+13V(PSC 6)

SD & PC CARD P.C.B.

P3503 P6801 17,52 → REG.D+5V(PSC 5)

P3503 P6801 16,51 → D+3.3V(PSC 10)

IC4010
(REG.AU+9V)
② VIN
VOUT ④
Ⓗ:ON ①

REG.AU+9V(PSC 4)

QR4006,4007

IC6807
(REG.DC+5V)
① VIN
VOUT ③
ON/OFF ②

P3503 P6801 19,20,54,55

RE.DC+5V
(PSC 19)

QR6801

NPWRON ← FROM DAVIS SEC.
(IC3503- 181)

IP7501
① ②

T7501
(POWER TRANS.)
④ ⑥

UNREG+38V
TU7401- ⑨
→ TO MAIN NET

DMR-E100H P/PC/PL
Power Supply Block Diagram

DMR-E100H P/PC/PL
Power Supply Block Diagram

Ref No.	IC1									IC102				IC103				IC104		
MODE	1	2	3	4	5	6	7	8		K	A	R		K	A	R		K	A	R
REC	2.0	2.5	0	2.0	0	11.7	15.4	5.0		4.5	0	2.5		2.0	0	2.5		7.1	0	2.4
PLAY	2.0	2.5	0	2.0	0	11.8	15.3	5.0		4.5	0	2.5		2.0	0	2.5		7.1	0	2.4
STOP	2.0	2.5	0	2.0	0	11.8	15.3	5.0		4.5	0	2.5		2.0	0	2.5		7.1	0	2.4

Ref No.	IC105					IC301							
MODE	1	2	3	4		1	2	3	4	5	6	7	8
REC	14.0	11.9	0	7.0		13.1	1.7	1.7	0	1.2	1.2	3.0	14.0
PLAY	14.0	11.9	0	7.0		13.1	1.7	1.7	0	1.2	1.2	2.9	14.0
STOP	14.0	11.9	0	7.0		13.1	1.7	1.7	0	1.2	1.2	2.9	14.0

Ref No.	IC302							
MODE	1	2	3	4	5	6	7	8
REC	13.1	3.1	3.2	0	1.2	1.2	4.3	14.0
PLAY	13.1	3.1	3.2	0	1.2	1.2	4.1	14.0
STOP	13.1	3.1	3.2	0	1.2	1.2	4.1	14.0

Ref No.	Q1				Q2				Q3				Q4				Q101		
MODE	E	C	B		E	C	B		S	D	G		E	C	B		E	C	B
REC	0	0	0.5		0	2.0	0.1		0	321	9.7		0	2.0	0		5.9	0.3	5.9
PLAY	0	0	0.5		0	2.0	0.1		0	253	9.7		0	2.0	0		5.9	0.3	5.9
STOP	0	0	0.5		0	2.0	0.1		0	251	9.7		0	2.0	0		5.9	0.3	5.9

Ref No.	Q102				Q104				Q105				Q106						
MODE	E	C	B		E	C	B		E	C	B		E	C	B				
REC	0	5.9	0.3		0	0	0.6		0.6	0.6	2.7		14.0	14.0	0				
PLAY	0	5.9	0.3		0	0	0.6		0.6	0.6	2.7		14.0	14.0	0				
STOP	0	5.9	0.3		0	0	0.6		0.6	0.6	2.7		14.0	14.0	0				

Ref No.	Q107								Q108				Q109				Q110		
MODE	1	2	3	4	5	6	7	8		E	C	B		E	C	B		E	C	B
REC	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		0	0	0.6
PLAY	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		0	0	0.6
STOP	5.1	5.1	5.1	11.6	5.1	5.1	5.1	5.1		14.0	14.0	13.3		0	0	0.6		0	0	0.6

Ref No.	Q111				Q113				Q115				Q301				Q302		
MODE	E	C	B		S	D	G		E	C	B		S	D	G		E	C	B
REC	5.9	5.8	5.1		5.2	5.8	7.1		14.0	14.0	13.3		1.9	4.5	6.1		6.1	14.0	5.5
PLAY	5.9	5.8	5.1		5.2	5.8	7.1		14.0	14.0	13.3		1.9	4.5	5.8		5.8	14.0	5.3
STOP	5.9	5.8	5.1		5.2	5.8	7.1		14.0	14.0	13.3		1.9	4.5	5.8		5.8	14.0	5.3

Ref No.	Q303				Q305				Q307				Q308				Q310		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		S	D	G
REC	6.1	0	5.5		14.0	5.5	13.7		0	8.7	0.1		14.0	13.7	13.7		3.5	5.8	7.8
PLAY	5.9	0	5.2		14.0	5.2	13.7		0	8.9	0.1		14.0	13.7	13.7		3.5	5.9	7.8
STOP	5.9	0	5.2		14.0	5.2	13.7		0	8.9	0.1		14.0	13.7	13.7		3.5	5.9	7.8

Ref No.	Q311				Q312				Q313				Q314				Q315		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
REC	7.8	14.0	7.3		7.8	0	7.3		14.0	7.3	13.6		0	7.0	0.2		14.0	13.6	13.7
PLAY	7.6	14.0	7.2		7.6	0	7.2		14.0	7.2	13.6		0	7.0	0.2		14.0	13.6	13.7
STOP	7.6	14.0	7.2		7.6	0	7.2		14.0	7.2	13.6		0	7.0	0.2		14.0	13.6	13.7

FRONT (L) P.C.B.

S7003 POWER — KEY IN2(L) — P7001 P7501 3 — KEY IN2 — IC7501 (TIMER) 100 KEY IN2

P7001 P7501 4 — KEY IN2(R)

IR7001 REMOTE CTL. RECEIVER (3 2 1)

N SW+5V — P7001 P7501 1 — REMOTE CTL. — 90 REMOTE CTL.

P7001 P7501 5 — KEY IN3 — 99 KEY IN3

P7001 P7501 6 — KEY IN3(R)

P7801 PS103 PS102 PP1503 7 8

P7801 PS103 PS102 PP1503 8 6

CH-UP S7808 · MODE S7809 · ERASE S7810 · TIME-WARP S7811 · PLAY S7812

REC S7802 · CH-DOWN S7803 · SKIP-R S7804 · STOP S7805

SKIP-F S7815 · OPEN/CLOSE S7816

X SW5.15V — TIME-WARP — D7801 — QR7801 (TIME-WARP LED DRIVE) — TIME-WARP LED (H) — P7801 PS103 PS102 PP1503 4 12 — 43 TIME-WARP LED (H)

DVD REC — D7802 — QR7803 (DVD REC LED DRIVE) — LED REC DVD (H) — P7801 PS103 PS102 PP1503 2 14 — 45 LED REC DVD LED (H)

DVD S7817 (1 2 3 4 5 6) — X SW5.15V — QR7802 (DVD LED DRIVE) — P7801 PS103 PS102 PP1503 1 15 — 46 DVD LED (H)

KEY IN1(R) — P7801 PS103 PS102 PP1503 6 10 — 1 KEY IN1

HDD REC — X SW5.15V — D7804 — QR7805 (HDD REC LED DRIVE) — LED REC HDD (H) — P7801 PS103 PS102 PP1503 5 11 — 41 HDD REC LED (H)

HDD S7818 (1 2 3 4 5 6) — X SW5.15V — QR7804 (HDD LED DRIVE) — HDD LED (H) — P7801 PS103 PS102 PP1503 3 13 — 44 HDD LED (H)

FRONT (R) P.C.B.

IC7505 (RESET): X SW 5.15V — 2 — 1 — 18 RESET (L)

SEG1 30 ~ SEG33 48 · DGT8 31 ~ DGT3 36 — SEG1 ~ SEG33 DGT3 ~ DGT8 — DP7501 FIP DISPLAY (1G, 2G) — F+, F- — T7501 DISPLAY REGULATOR (1 5 4)

DGT2 37 — Q7511 (DISPLAY DRIVE) — 2G

DGT1 38 — Q7510 (DISPLAY DRIVE) — N SW+5V — 1G

IP7501 IC PROTECTOR (1 2)

IC7507 (FAN MOTOR DRIVE): X SW13V — Q7509 (FAN MOTOR DRIVE) — FAN DC OUT 56 — 5 B+IN — OUT 1

FANPWM — P7503 1 / P7503 3 — FAN MOTOR (M) — FAN LOCK (H) 9

P SAVE (L) 47 — POWER SAVE (H)

POWER ON (H) 39 — POWER ON (H)

DR P ON (H) 38 — DR POWER ON (H)

JC P ON (H) 37 — JC POWER ON (H)

TO POWER SUPPLY

IC7504 (REAL TIME IC)

REAL TIME CS 19 — 5 CS

REAL TIME CLK 34 — 6 SCK

REAL TIME SO 35 — 7 SIO

REAL TIME SI 36

5V(D) 24 — 8 VDD

XOUT 3 — X7501 32.768MHz — XIN 2

X SW 5.15V — B7501 BACKUP BATTERY

IN 22 — X7502 4.194MHz — OUT 23

AUDIO MUTE (L) 20 — AUDIO MUTE (L) — TO ANALOG AUDIO

L1/L2/L3 DET 3 — L123 SWIDE IC3003- 29

EXT SYNC (H) 16 — EXIT SYNC (H)

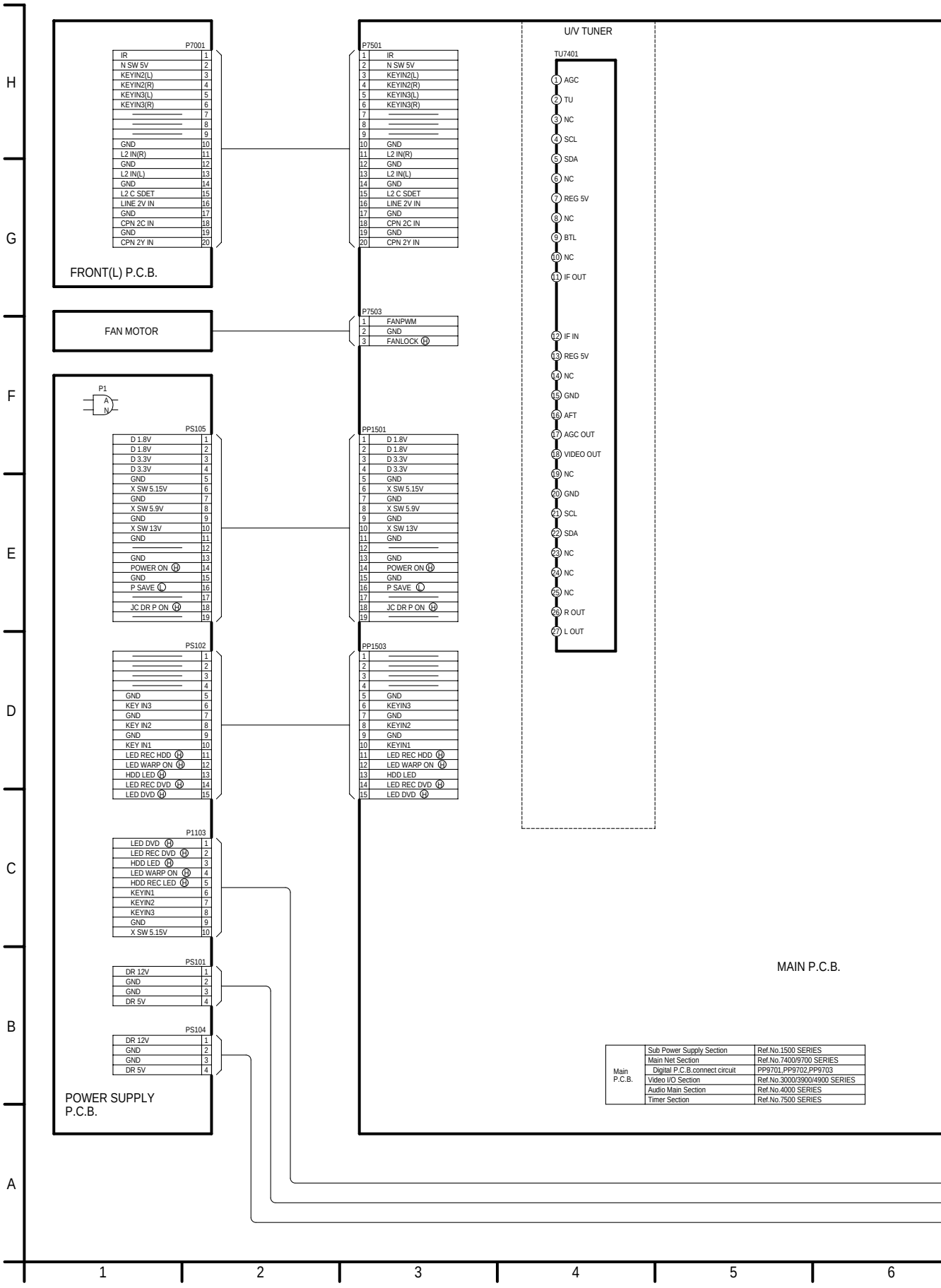
VIDEO MUTE (L) 8 — VIDEO MUTE (L) IC3005- 2 , 15

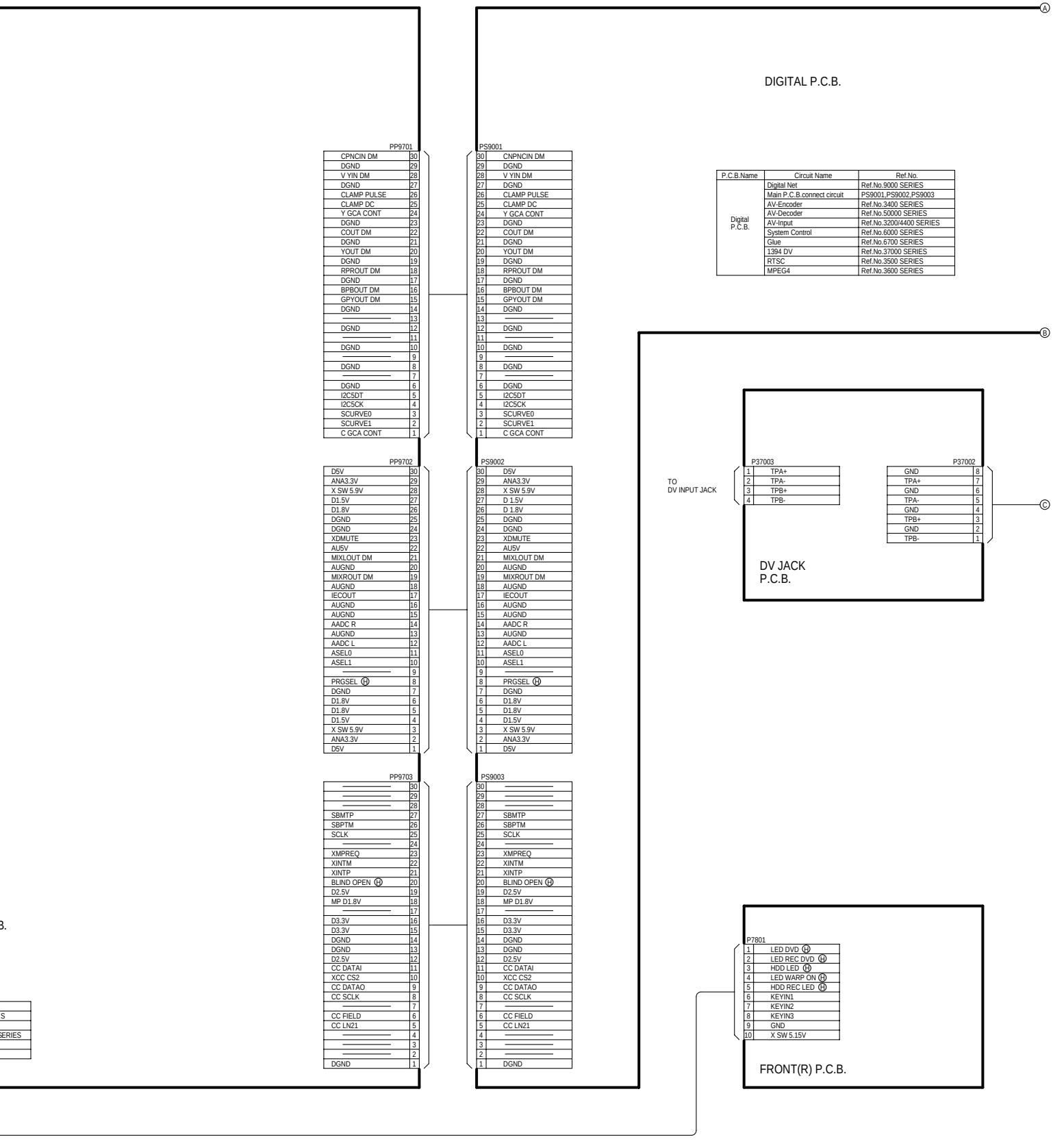
TO/FROM ANALOG VIDEO

DMR-E100H P/PC/PL
Timer Block Diagram

14 Schematic Diagram

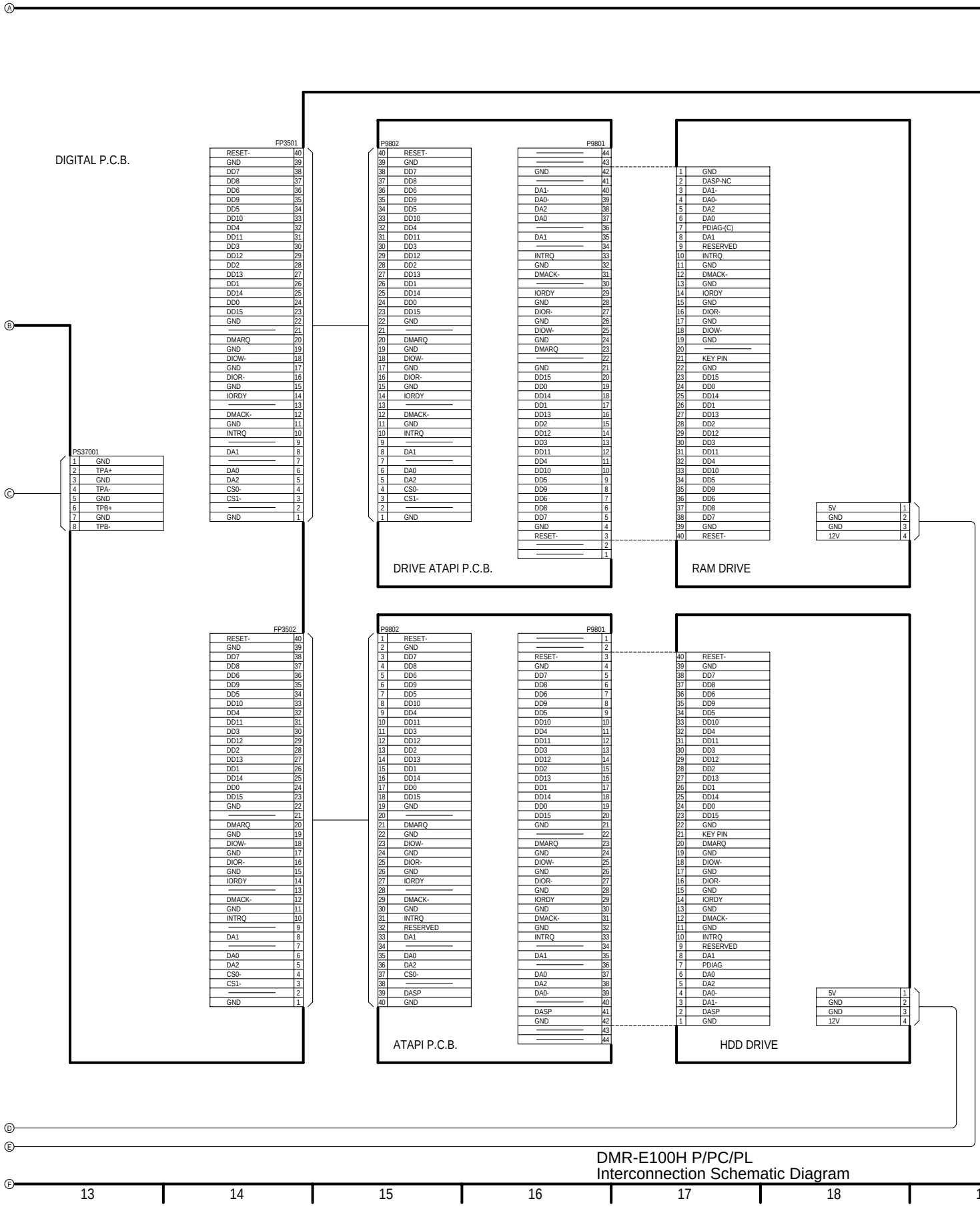
14.1. Interconnection Schematic Diagram



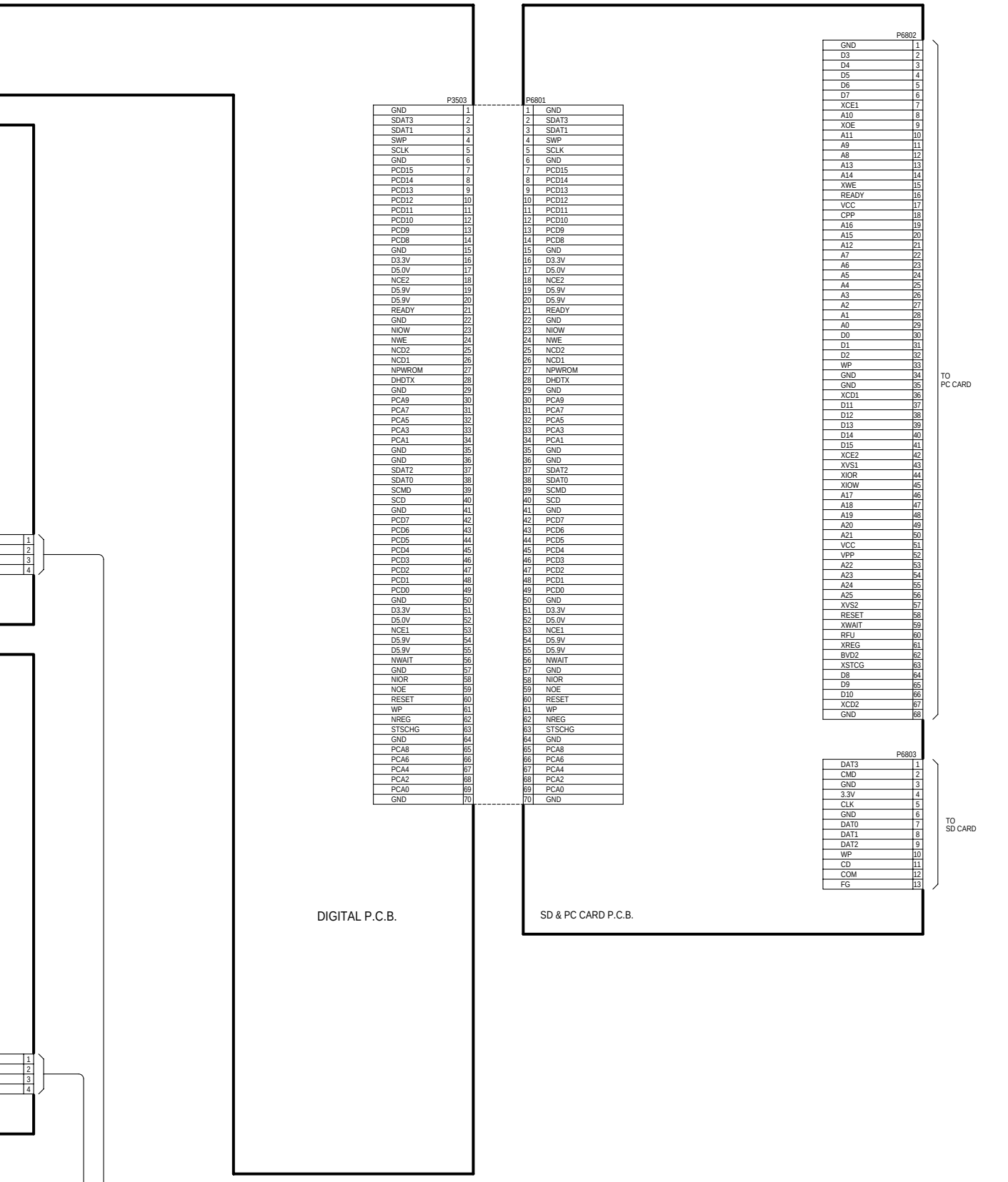


DMR-E100H P/PC/PL
Interconnection Schematic Diagram

6 | 7 | 8 | 9 | 10 | 11 | 12



DMR-E100H P/PC/PL
Interconnection Schematic Diagram

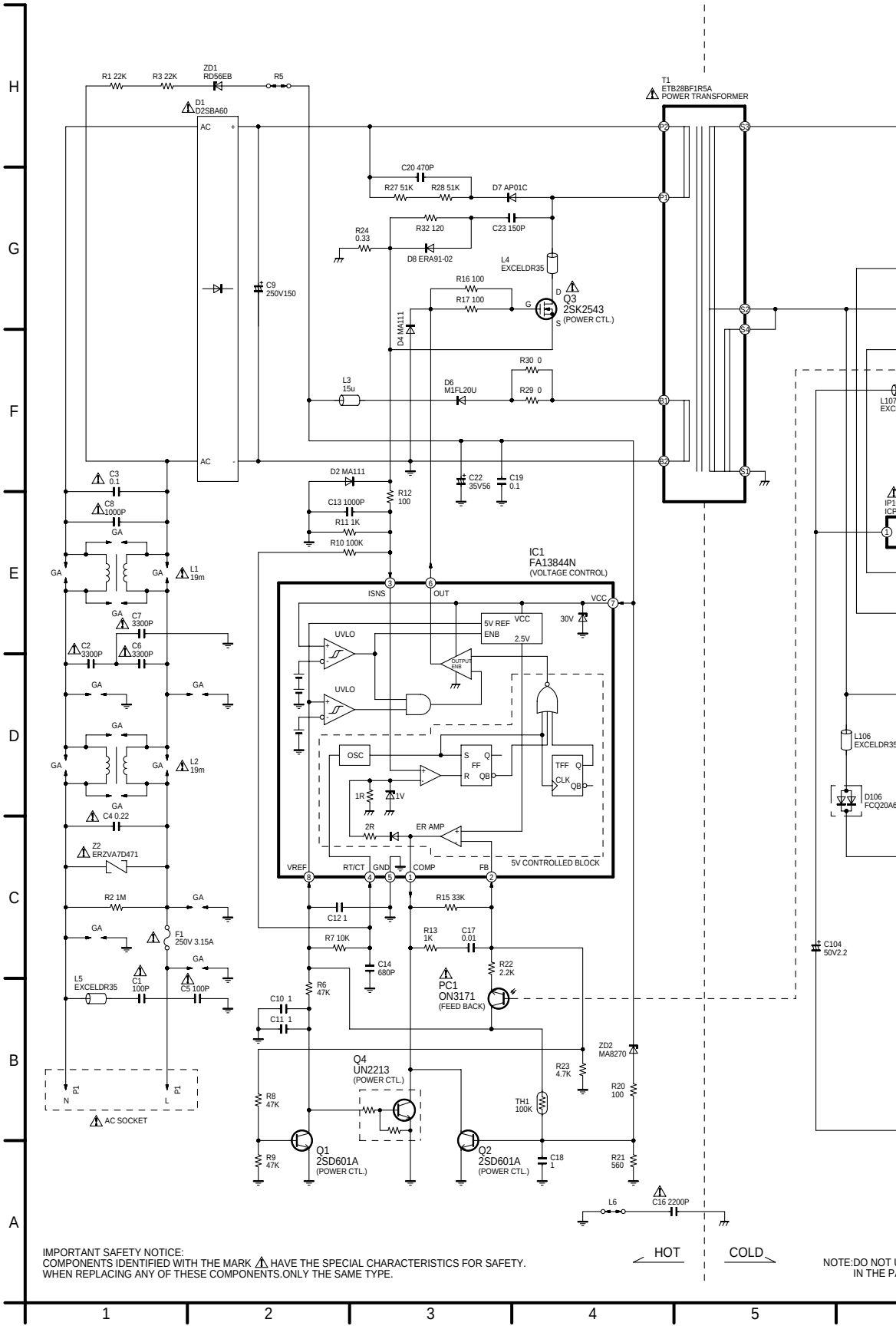


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Interconnection Schematic Diagram

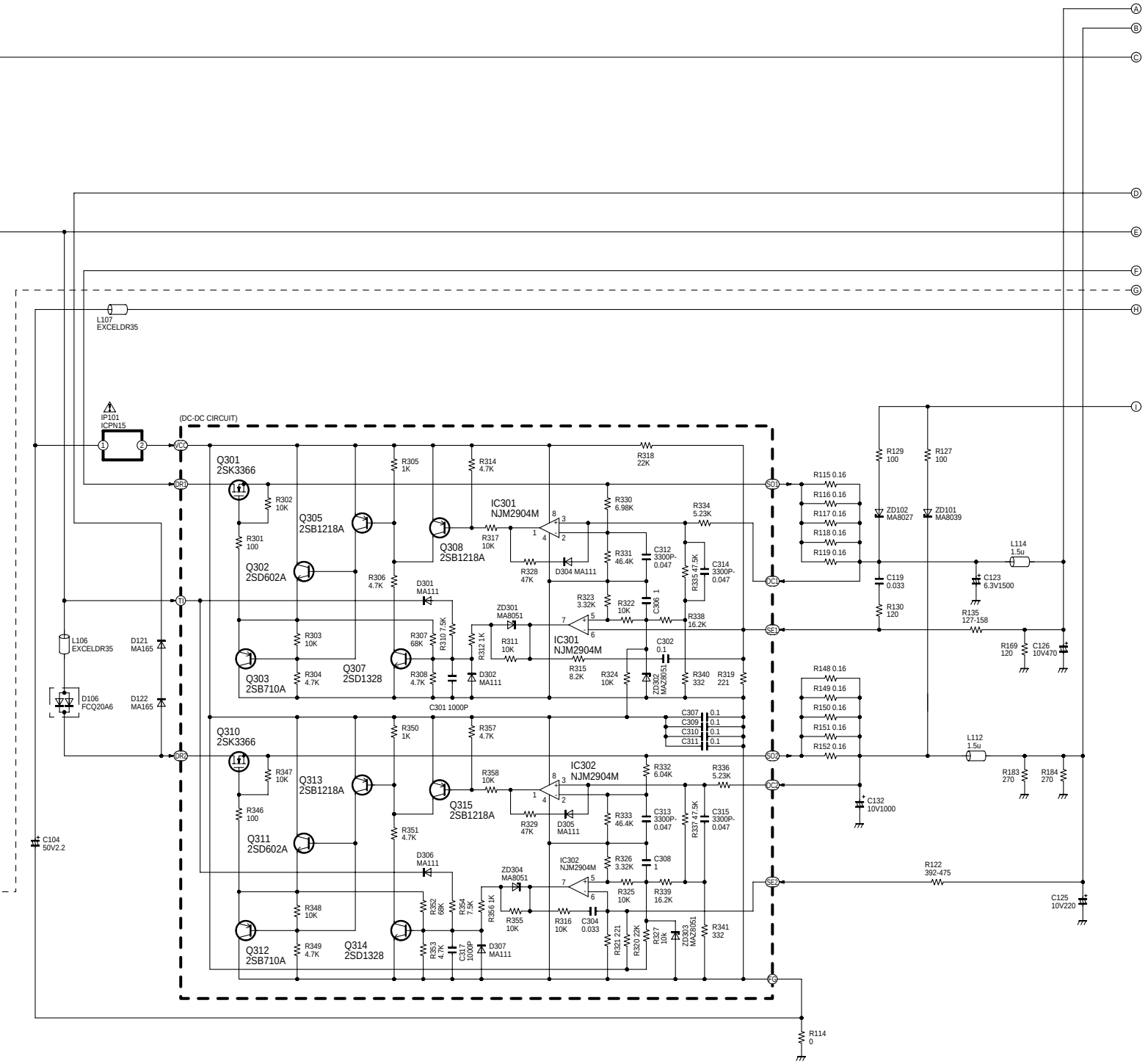
19 20 21 22 23 24

14.2. Main Power Supply Schematic Diagram



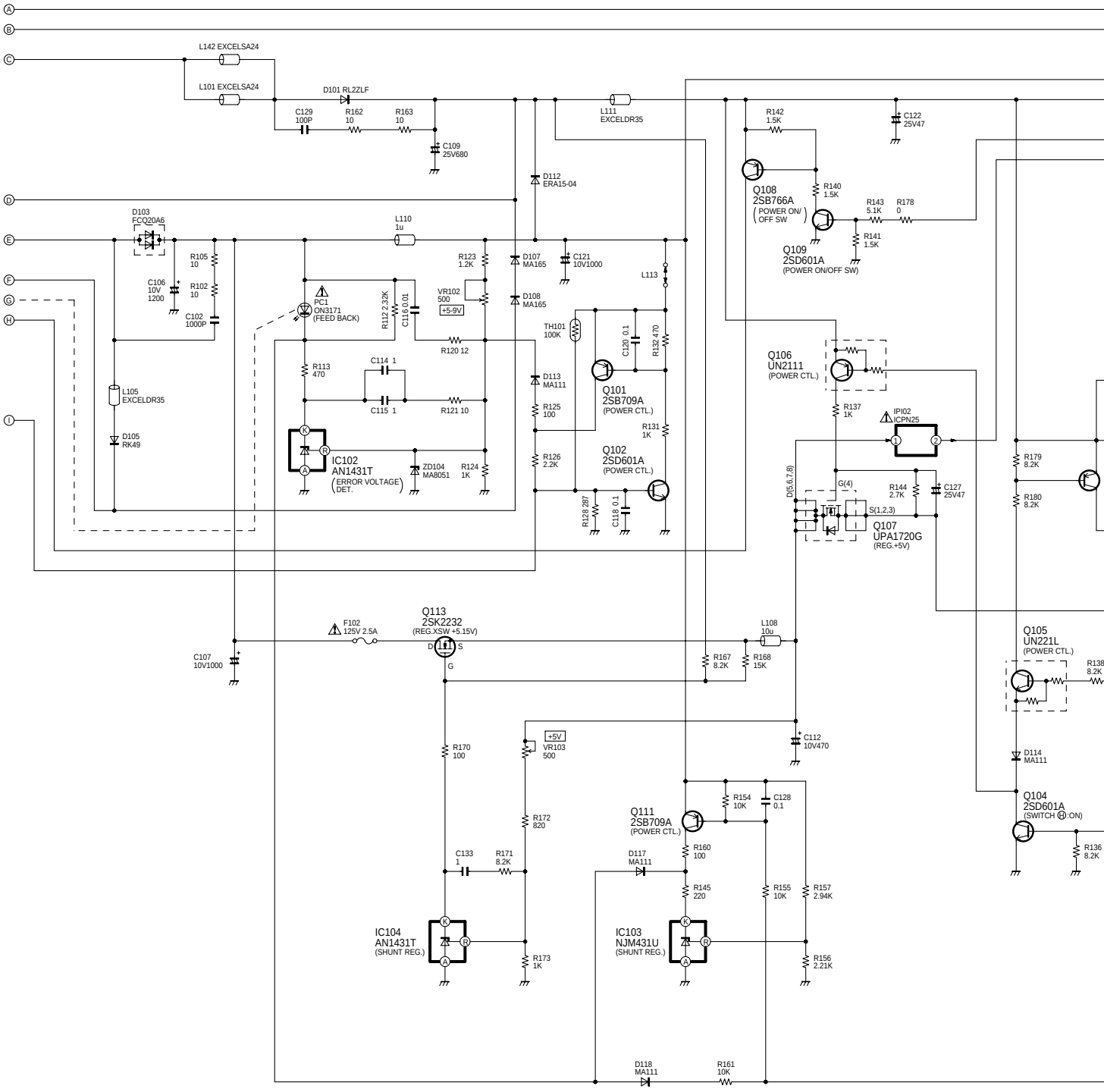
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

NOTE:DO NOT
IN THE P

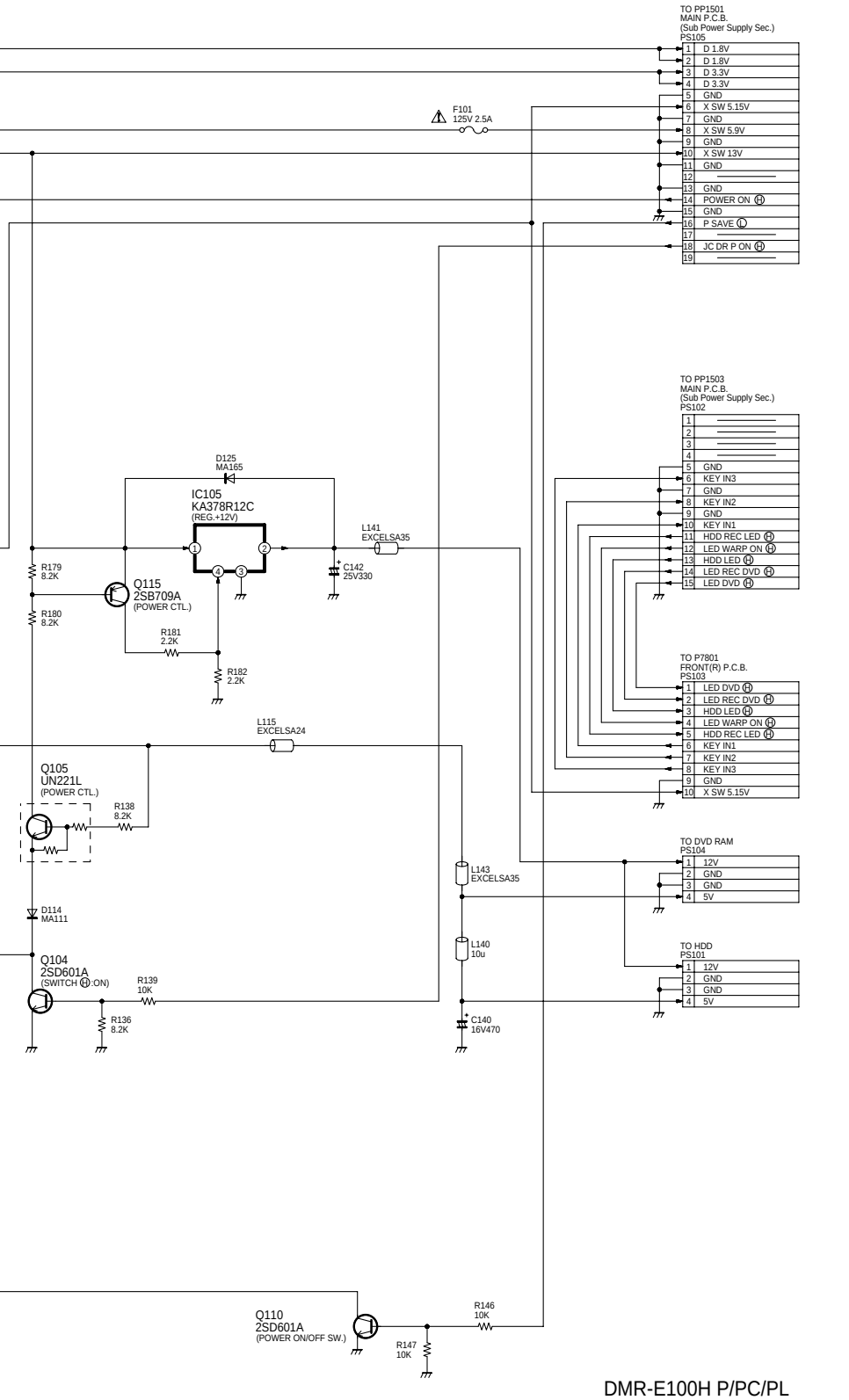


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Main Power Supply
Schematic Diagram



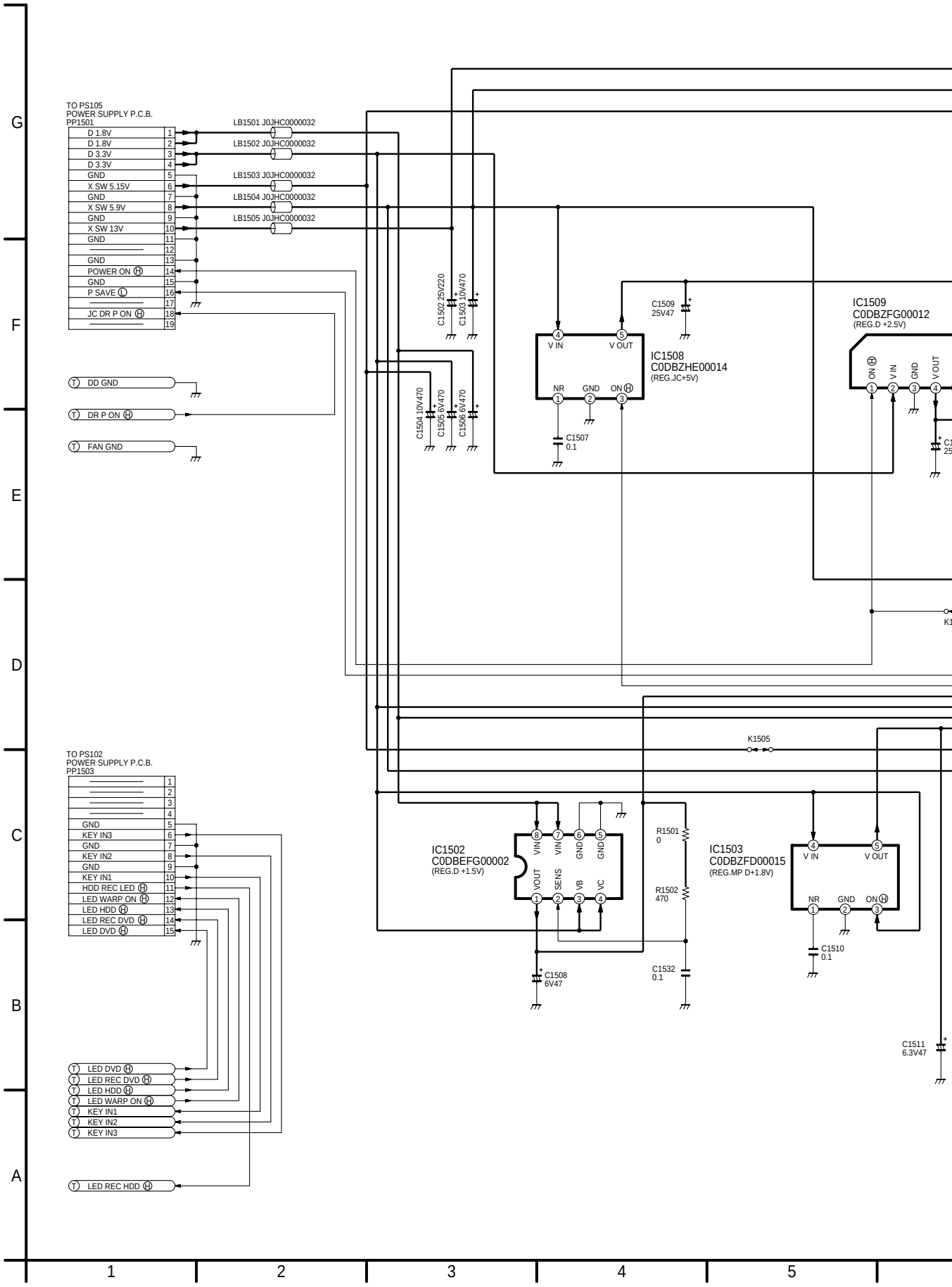
DMR-E100H P/PC/PL
Main Power Supply
Schematic Diagram



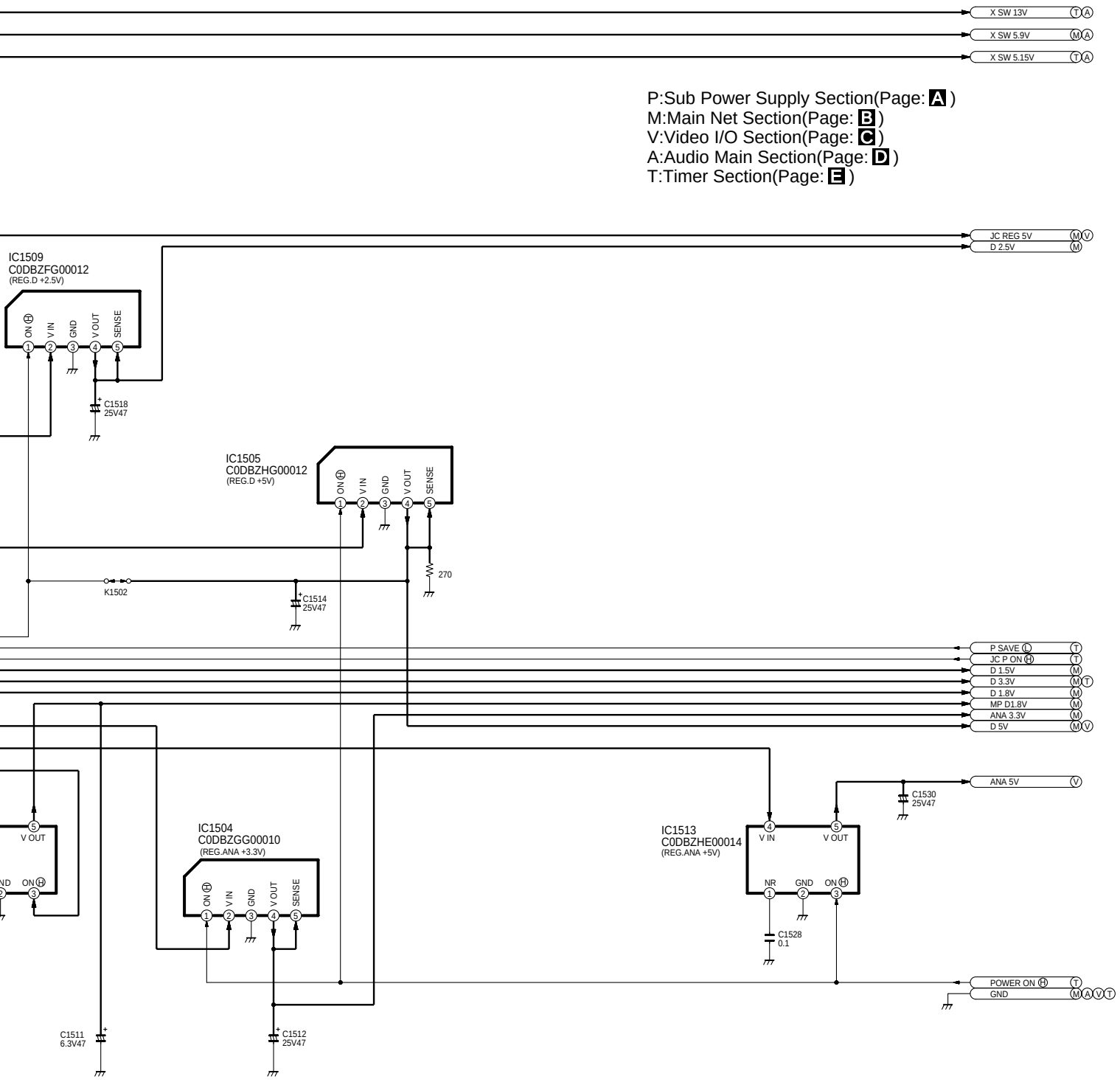
DMR-E100H P/PC/PL
Main Power Supply
Schematic Diagram

19 | 20 | 21 | 22 | 23

14.3. Sub Power Supply Schematic Diagram (P) (Main P.C.B. 1/5)



A

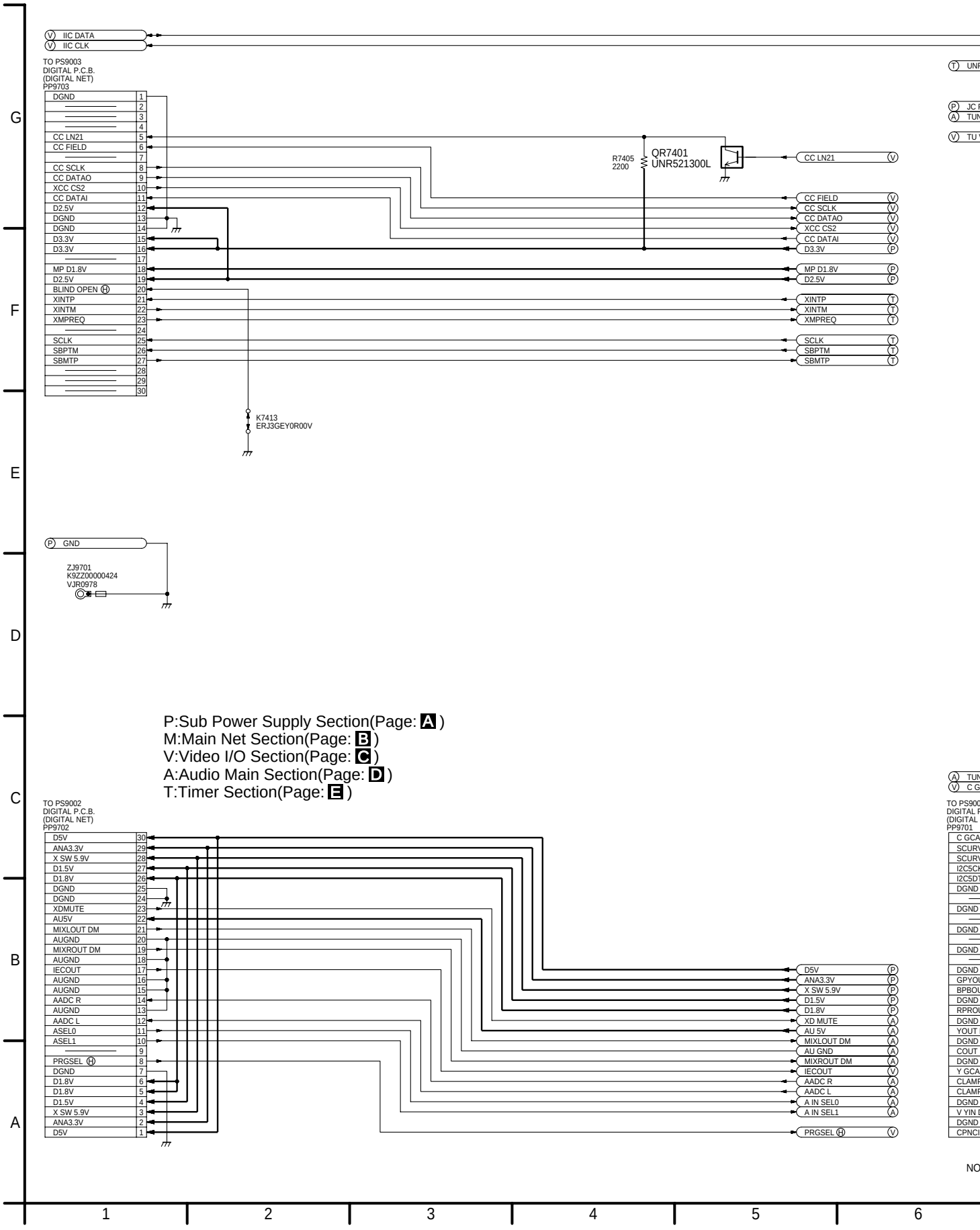


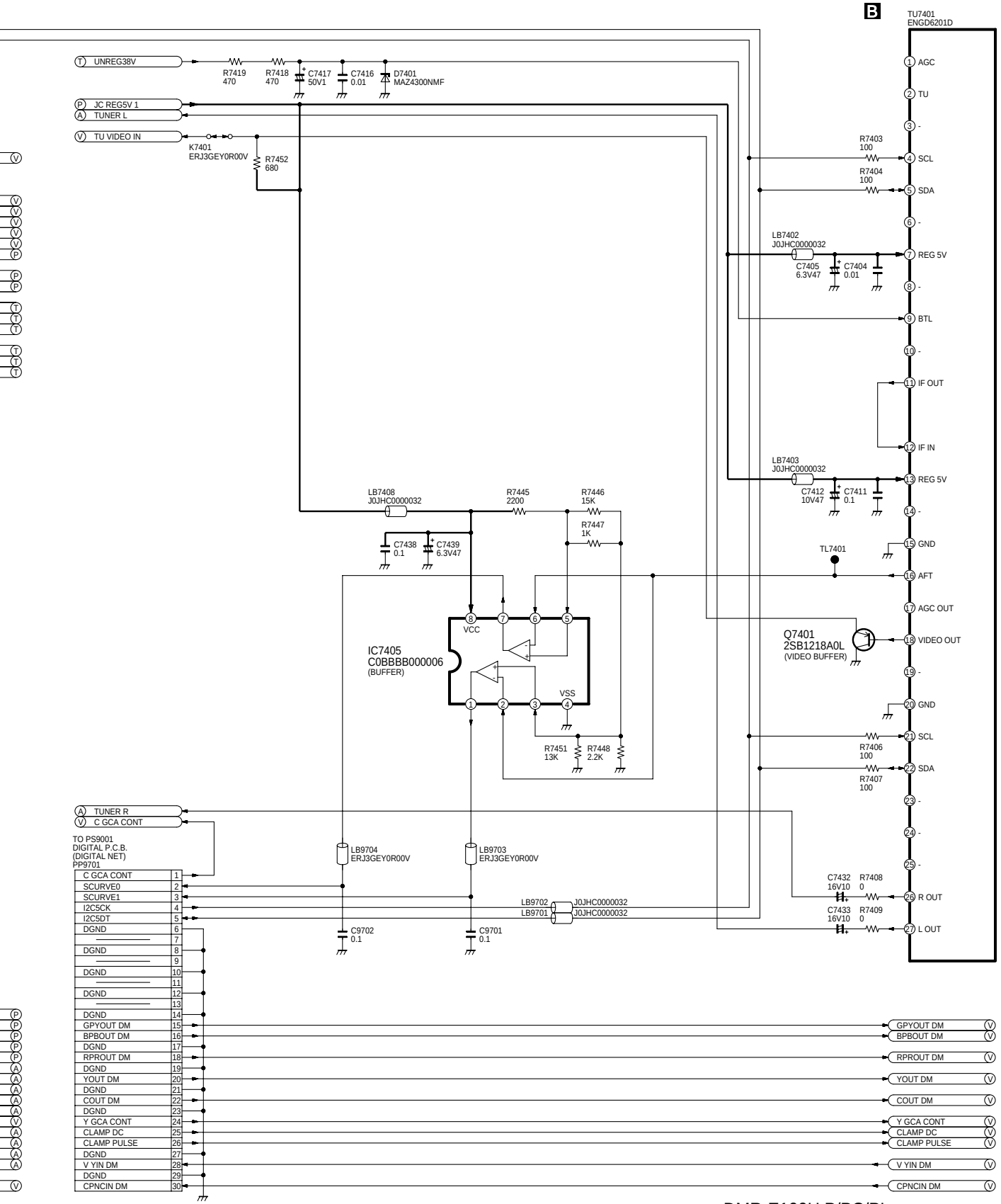
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Sub Power Supply Section(Main P.C.B.(1/5))
Schematic Diagram(P)

6 | 7 | 8 | 9 | 10 | 11

14.4. Main Net Schematic Diagram (M) (Main P.C.B. 2/5)



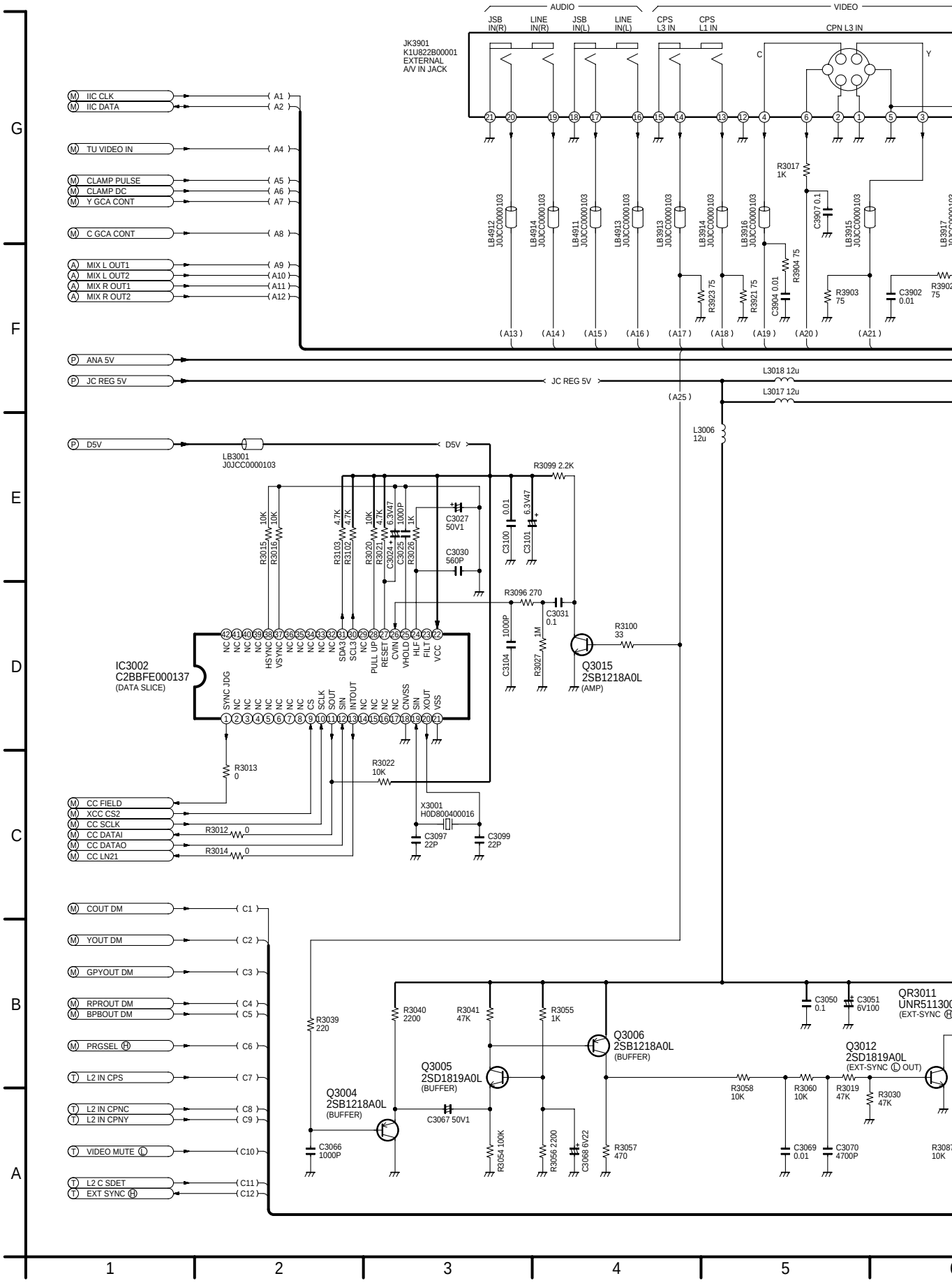


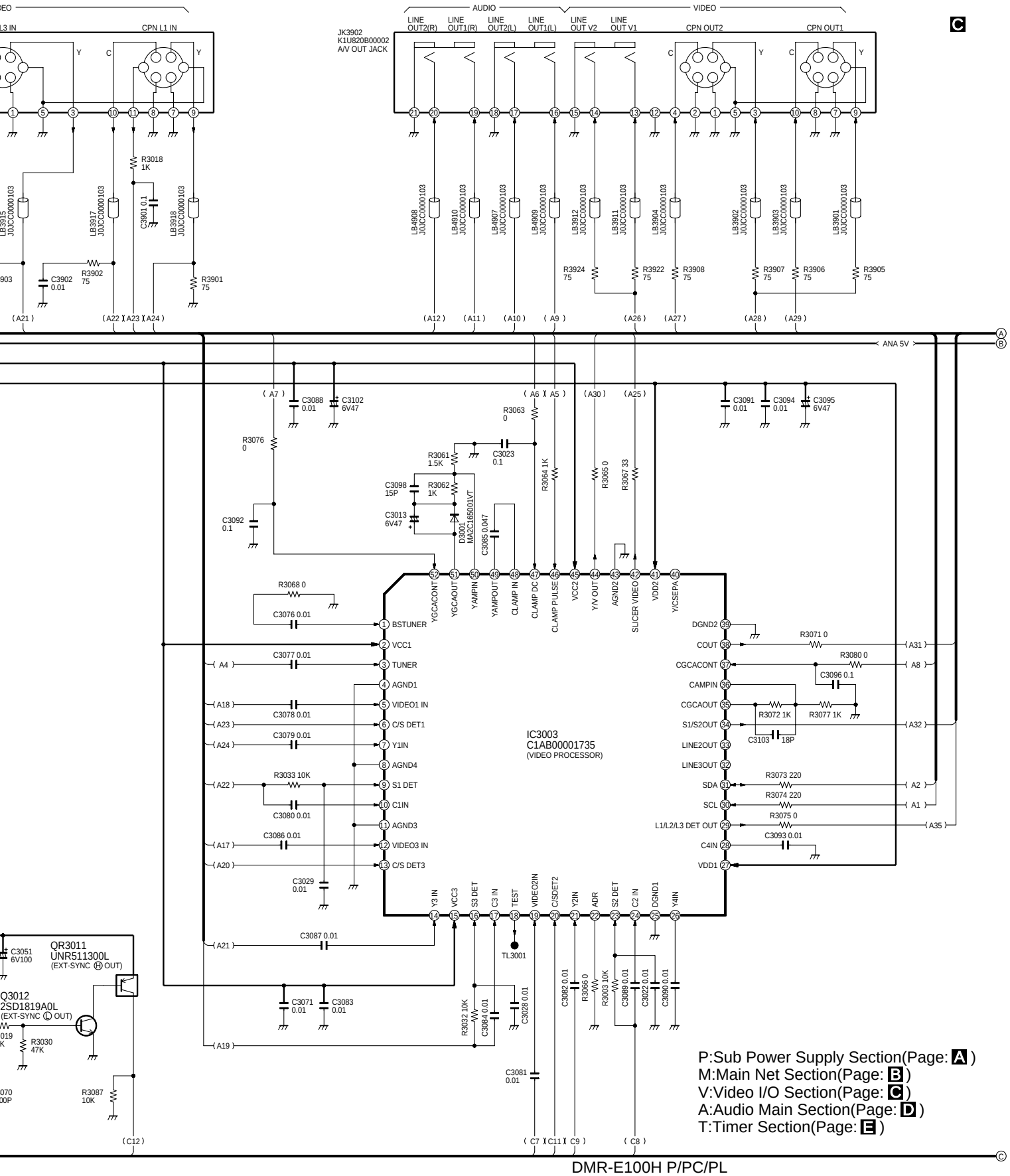
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECTPART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Main Net Section(Main P.C.B.(2/5))
Schematic Diagram(M)

6 | 7 | 8 | 9 | 10 | 11

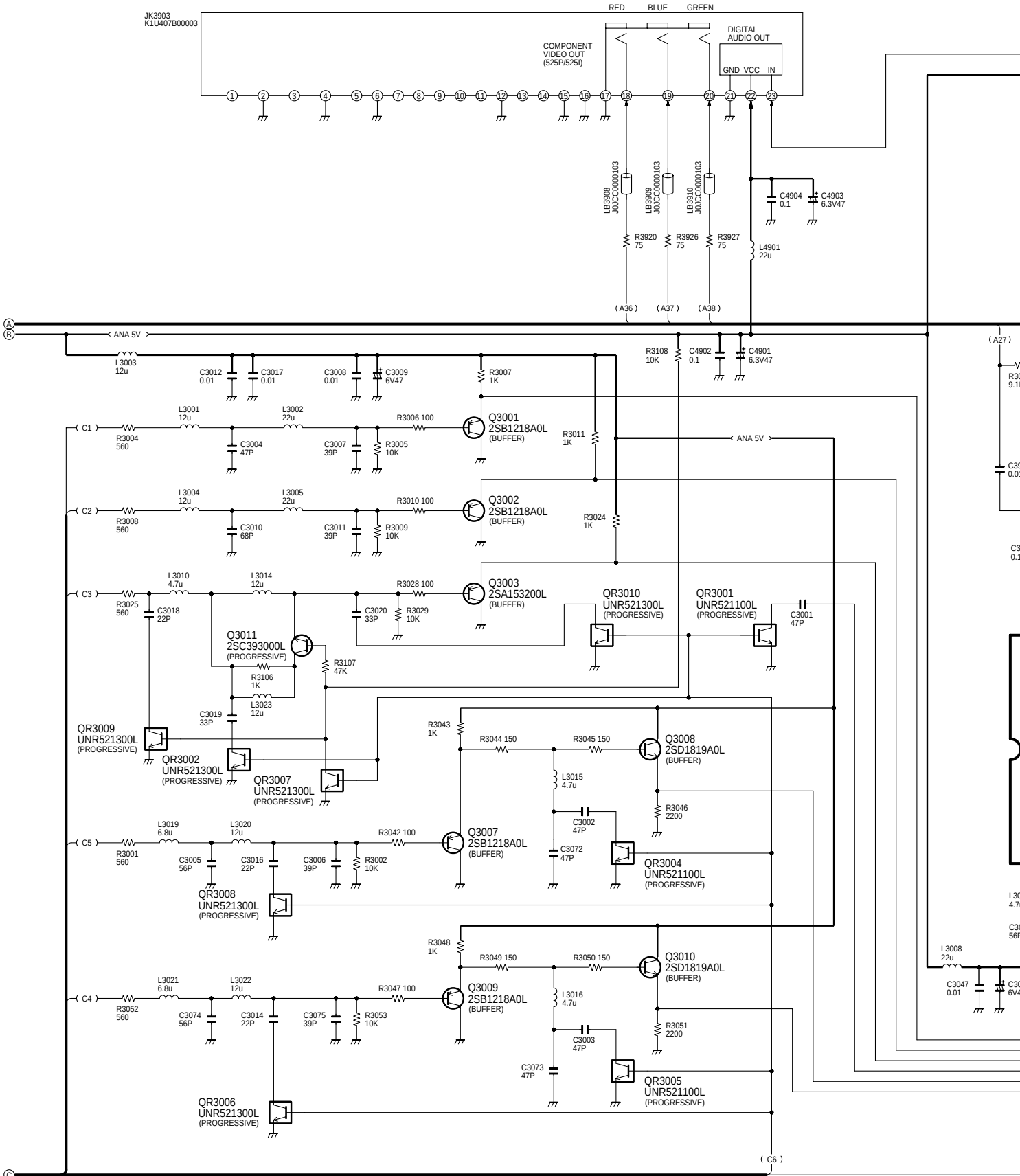
14.5. Video I/O Schematic Diagram (V) (Main P.C.B. 3/5)





P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

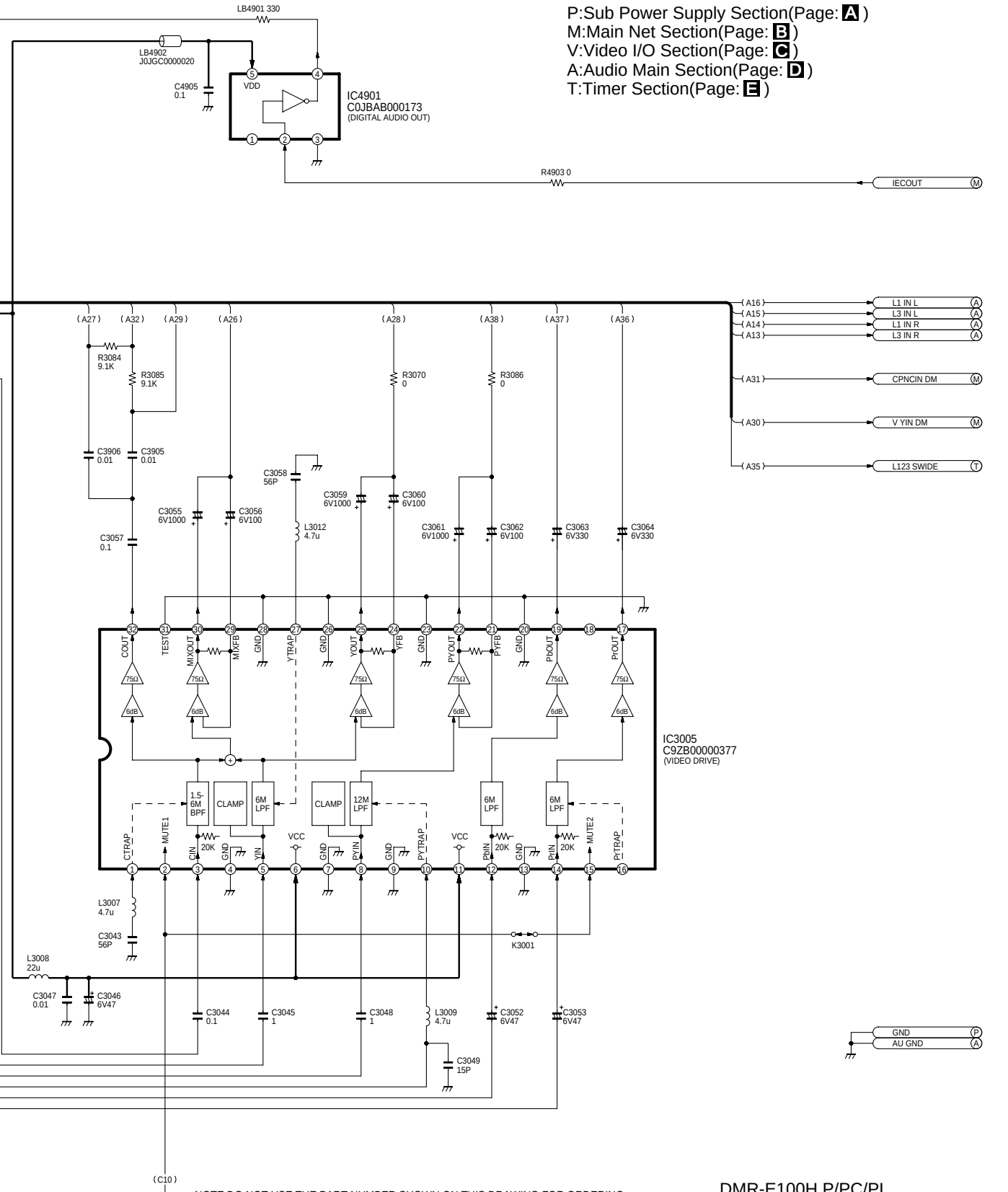
DMR-E100H P/PC/PL
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)



DMR-E100H P/PC/PL
Video I/O Section(Main P.C.B.(3/5)) Schematic Diagram(V)

C

P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)



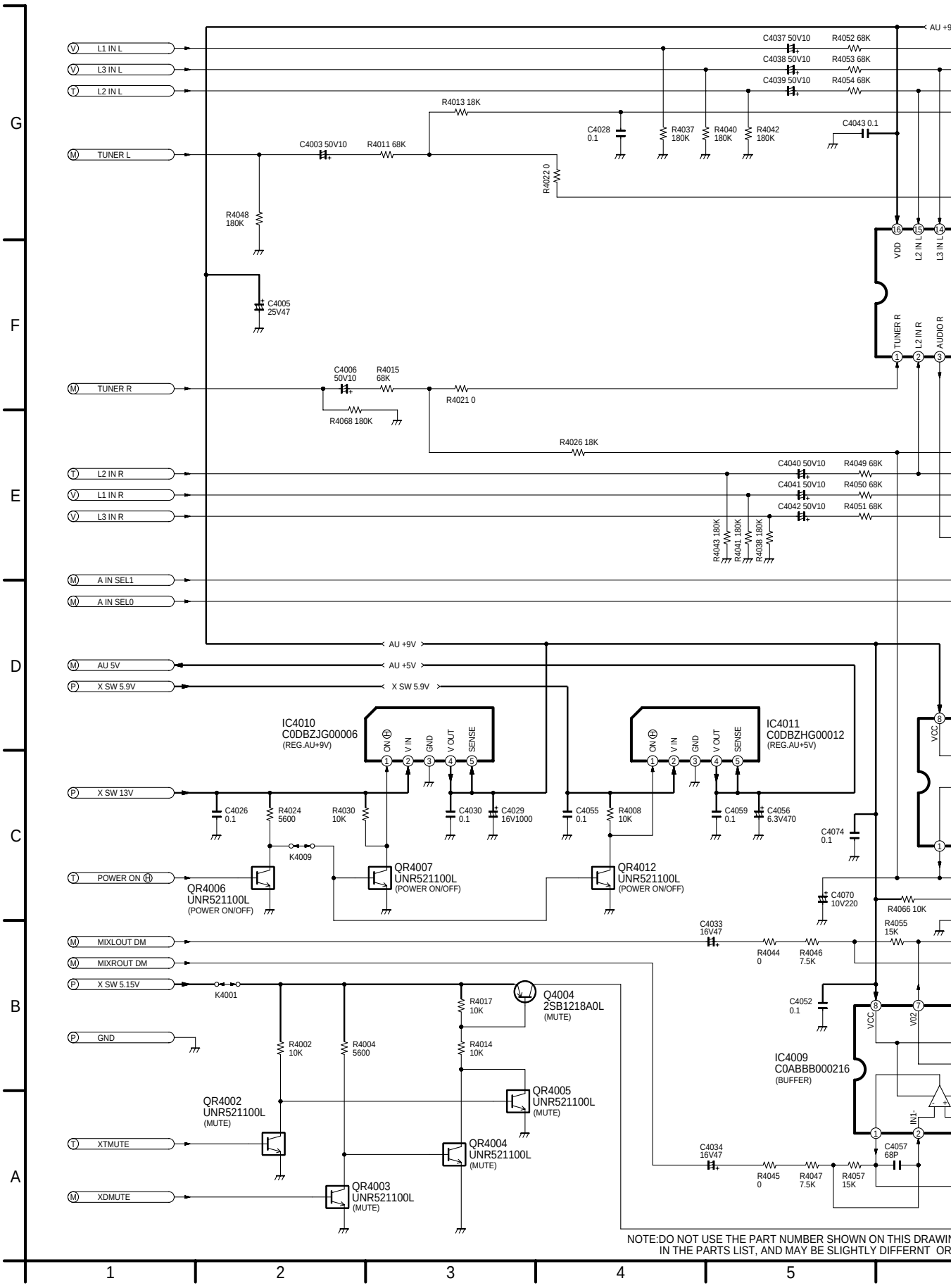
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

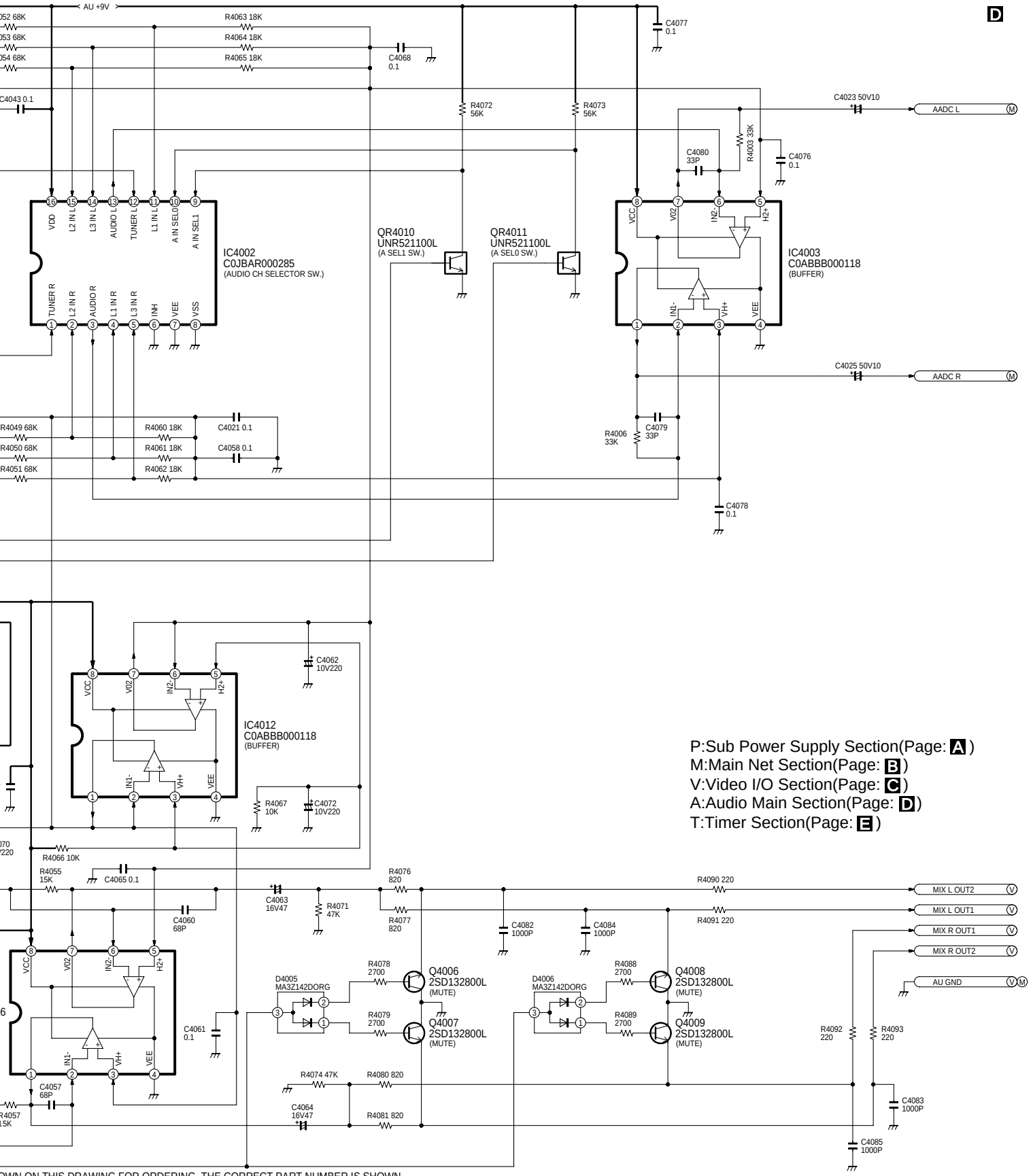
DMR-E100H P/PC/PL
Video I/O Section(Main P.C.B.(3/5))
Schematic Diagram(V)

m(V)

18 19 20 21 22

14.6. Audio Schematic Diagram (A) (Main P.C.B. 4/5)





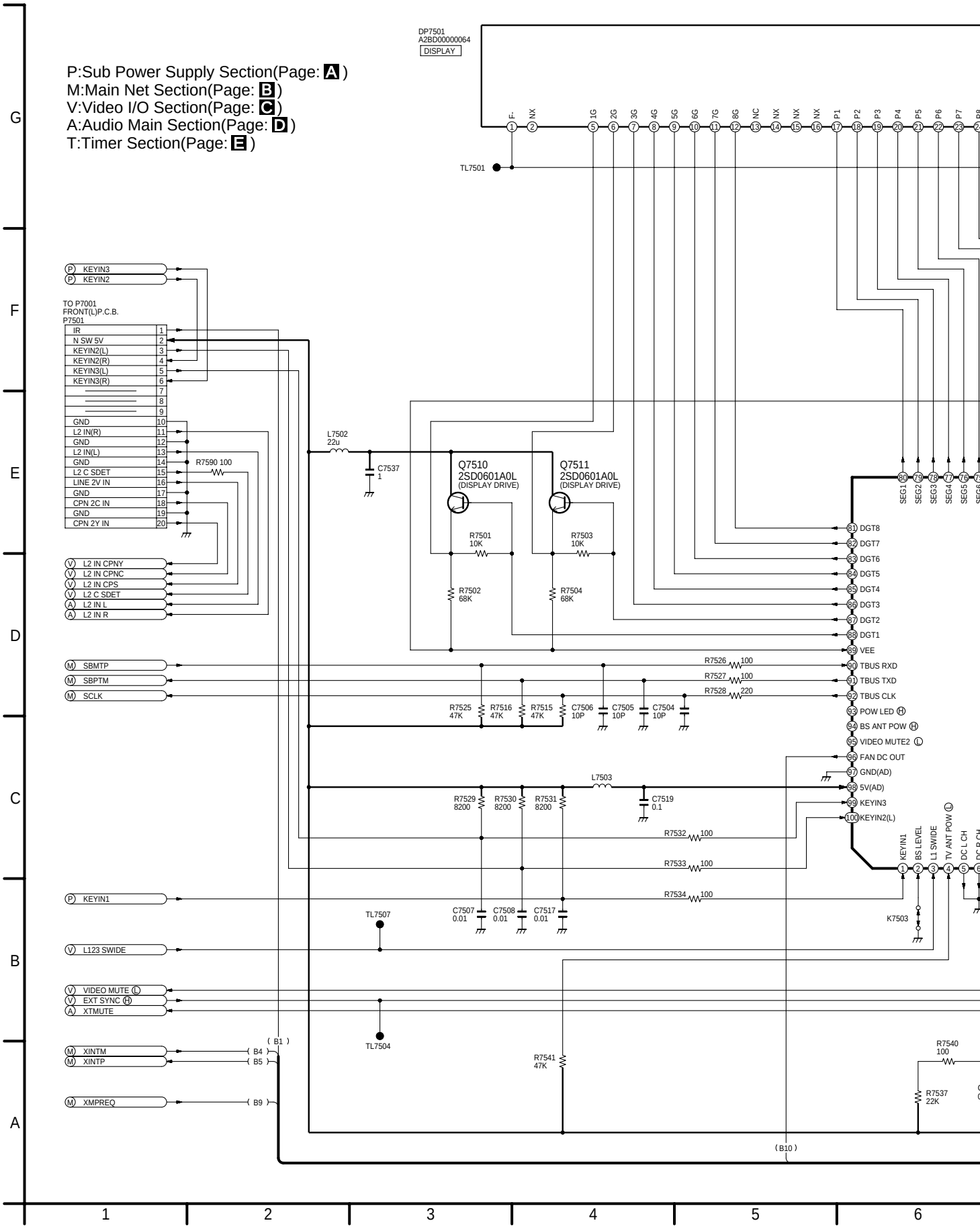
P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

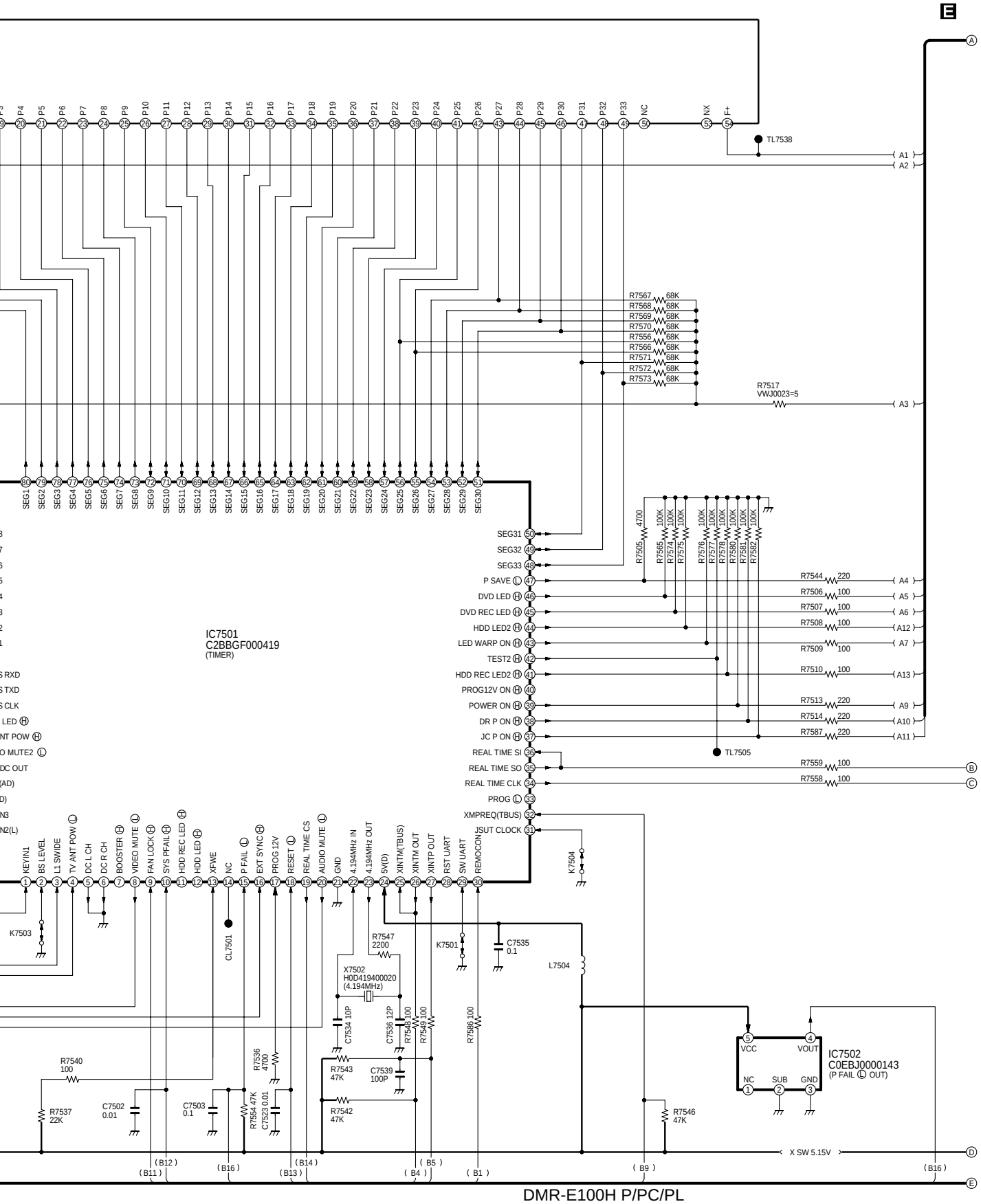
OWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
GHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL Audio Main Section(Main P.C.B.(4/5)) Schematic Diagram(A)

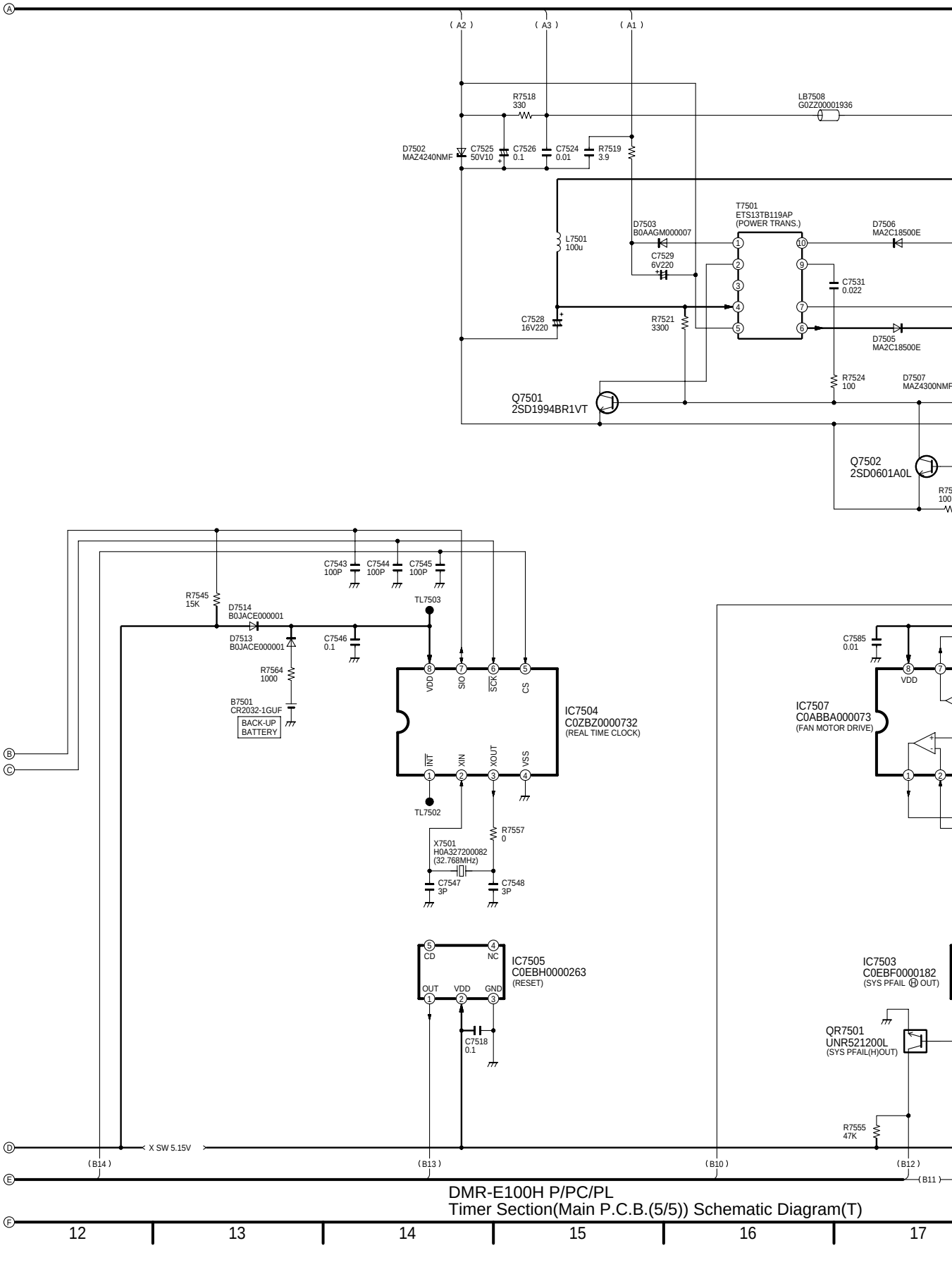
6 | 7 | 8 | 9 | 10 | 11

14.7. Timer Schematic Diagram (T) (Main P.C.B. 5/5)



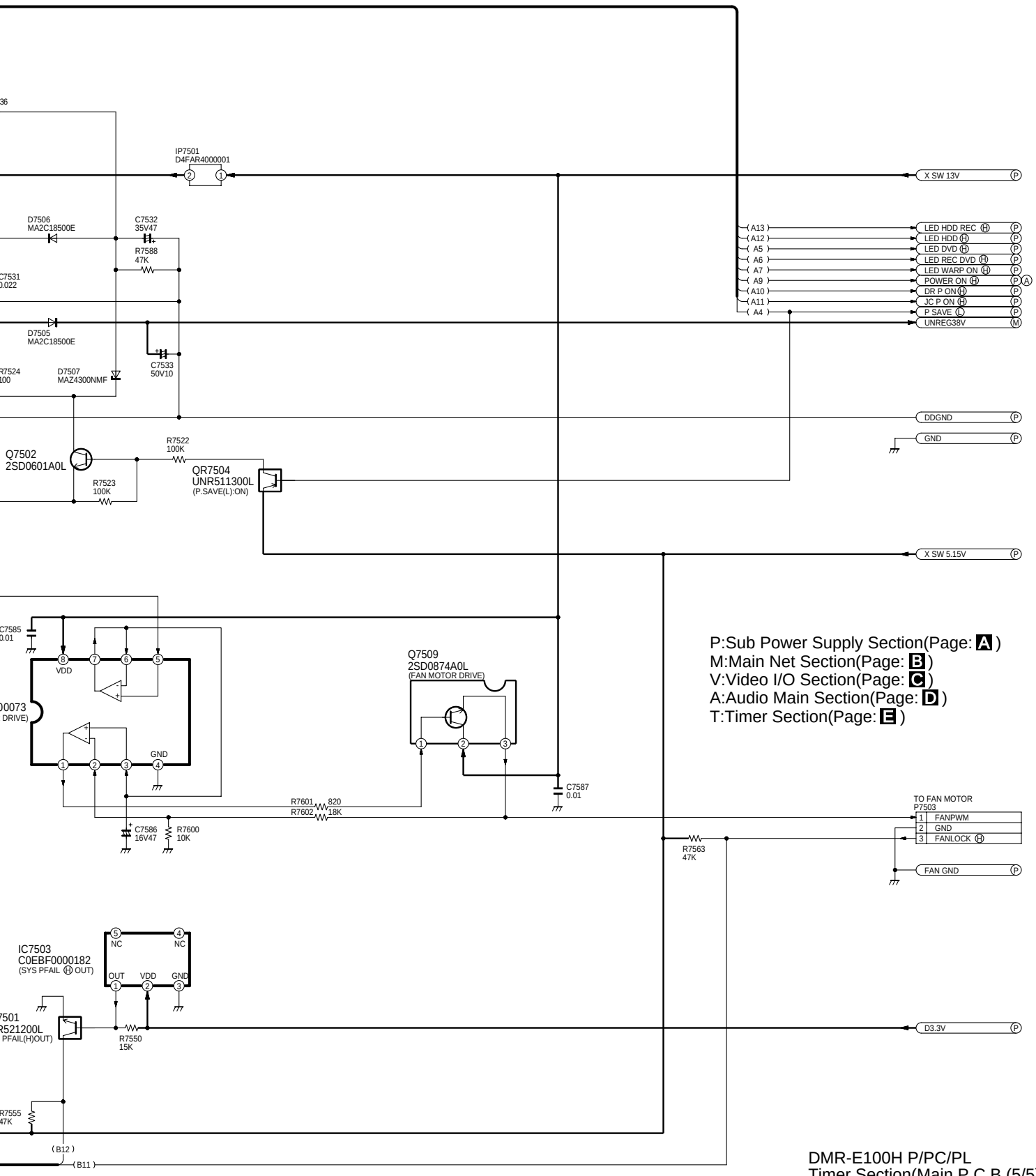


DMR-E100H P/PC/PL
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)



DMR-E100H P/PC/PL
Timer Section(Main P.C.B.(5/5)) Schematic Diagram(T)

E



P:Sub Power Supply Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

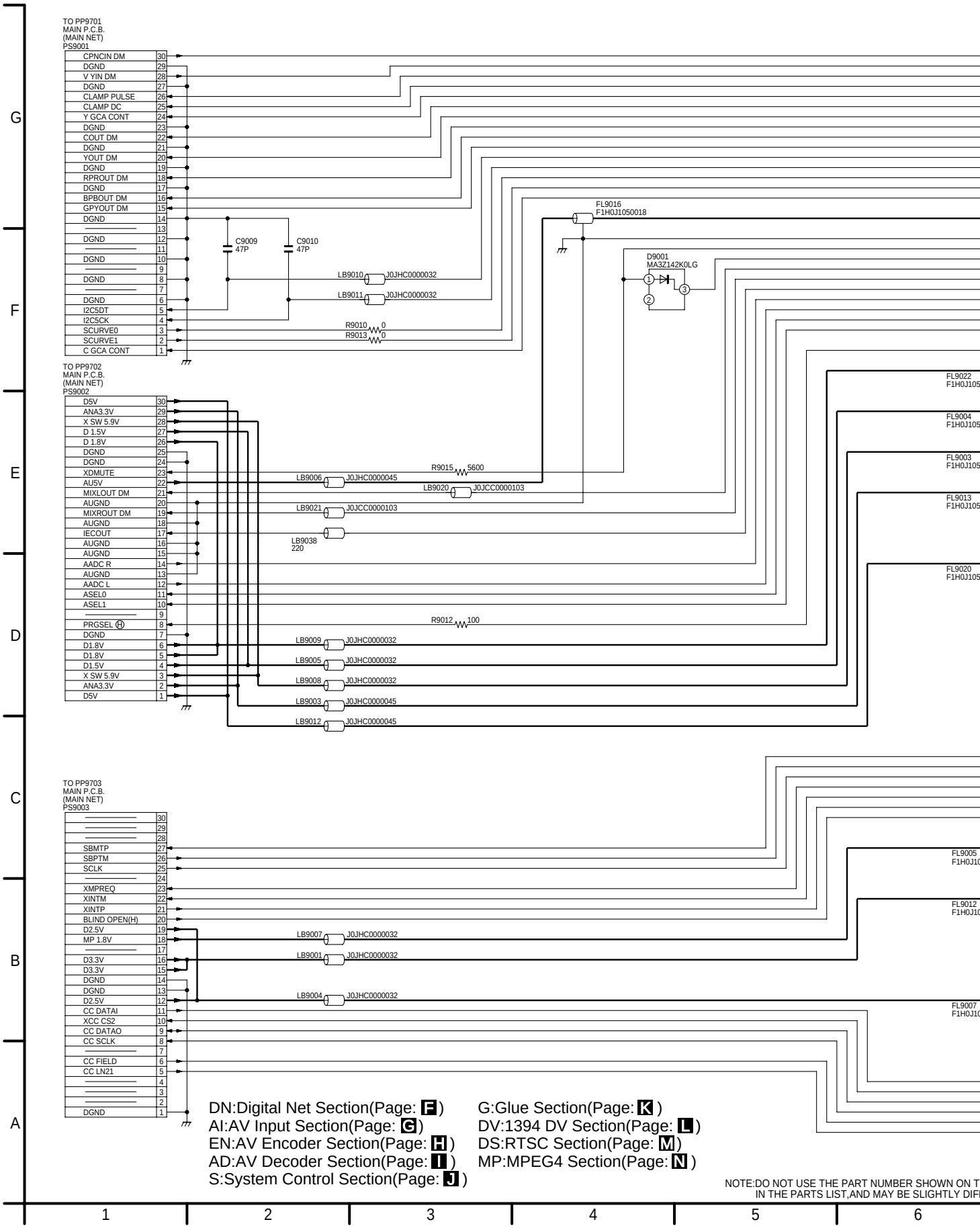
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Timer Section(Main P.C.B.(5/5))
Schematic Diagram(T)

(T)

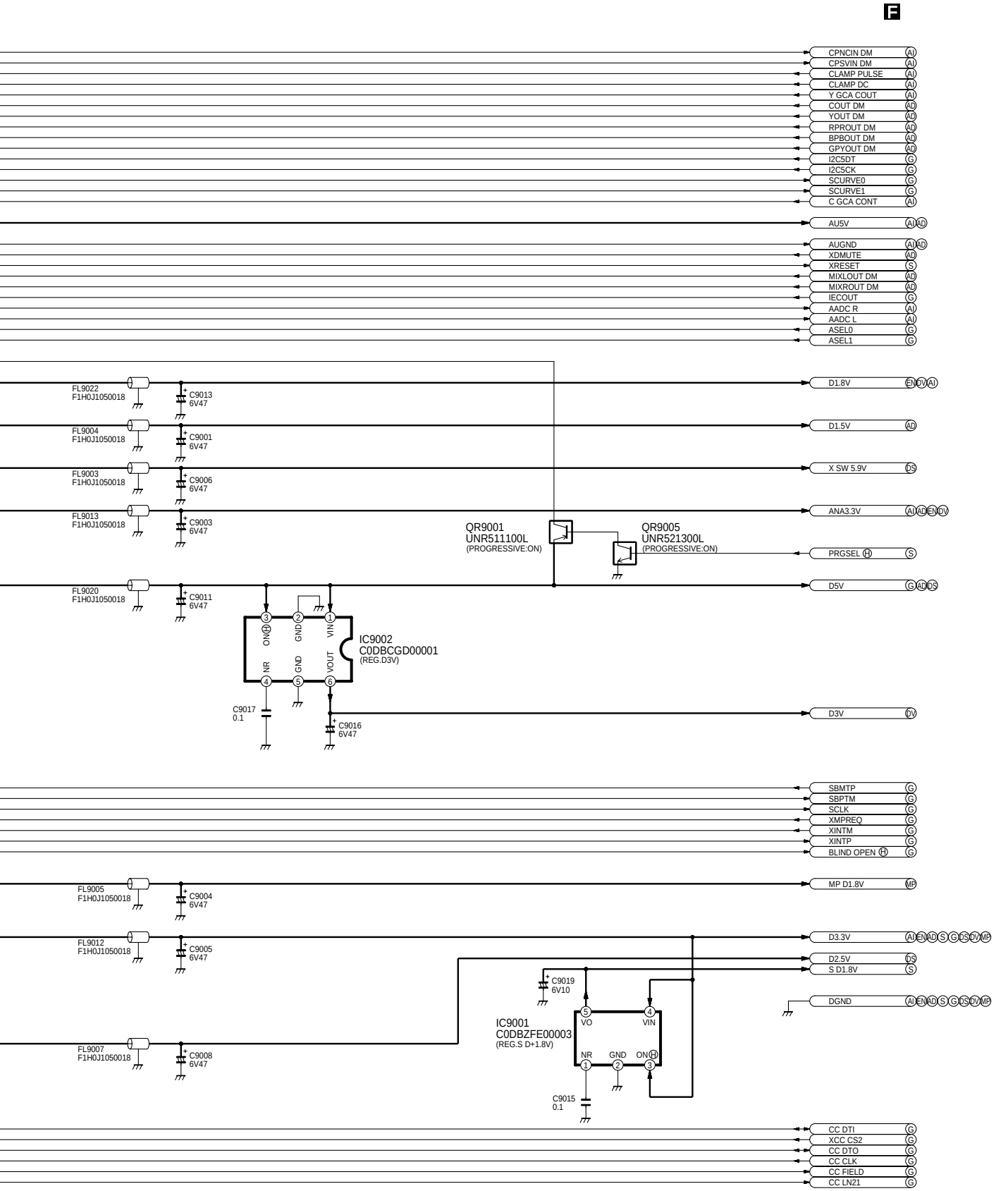
17 | 18 | 19 | 20 | 21 | 22

14.8. Digital Net Schematic Diagram (DN) (Digital P.C.B. 1/9)



DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON T
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFI

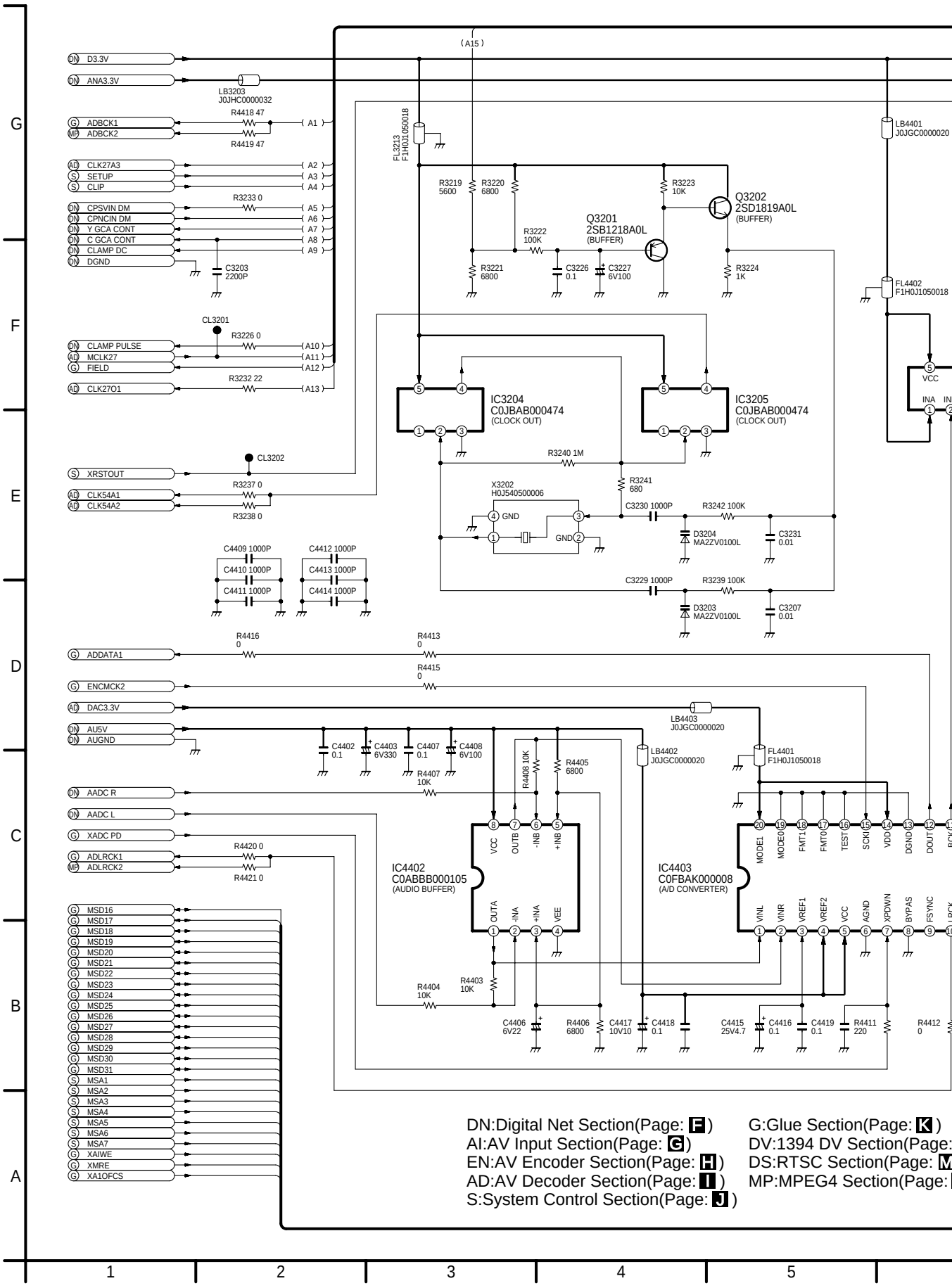


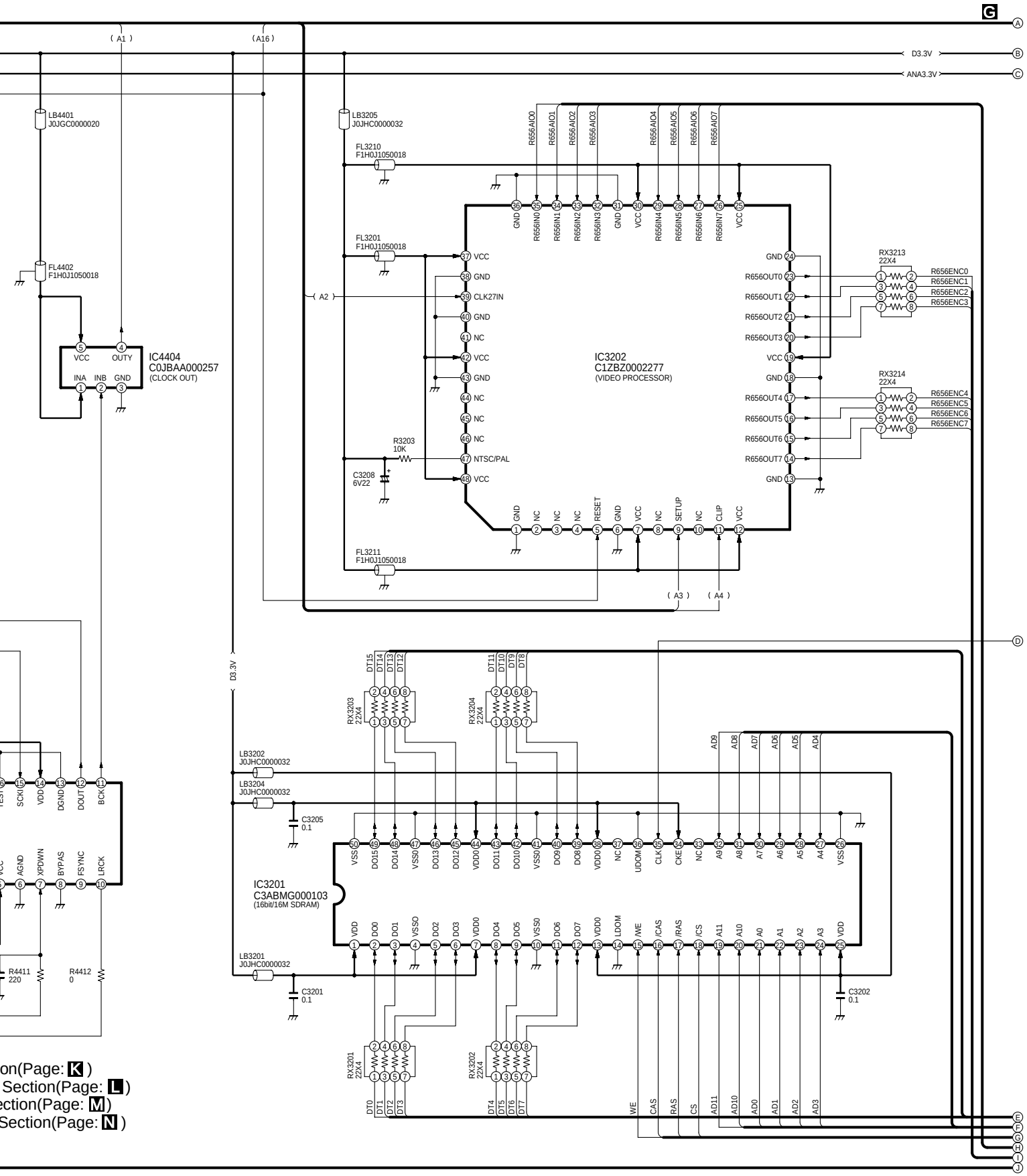
UMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Digital Net Section(Digital P.C.B.(1/9))
Schematic Diagram(DN)

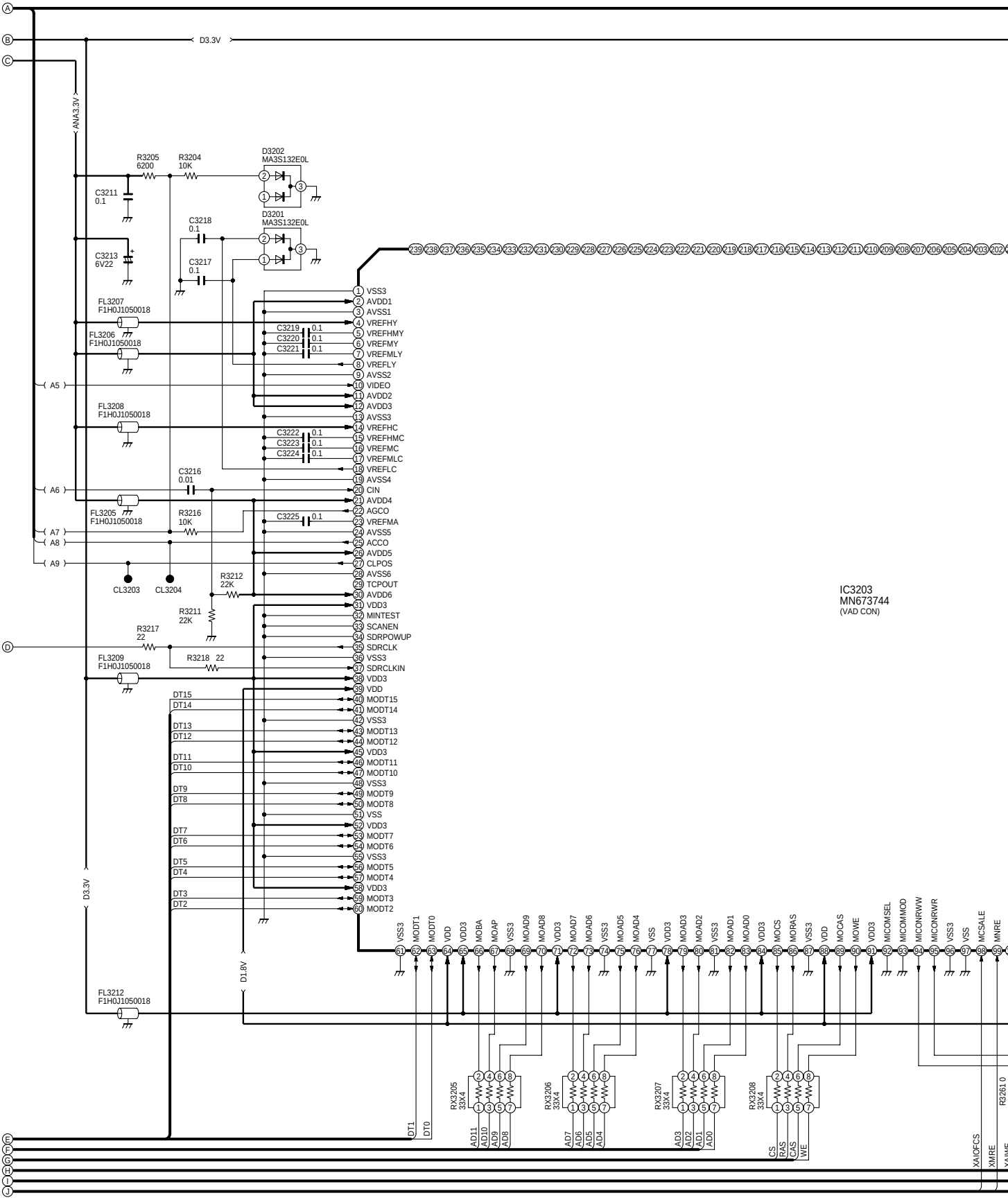
6 | 7 | 8 | 9 | 10 | 11

14.9. AV Input Schematic Diagram (AI) (Digital P.C.B. 2/9)



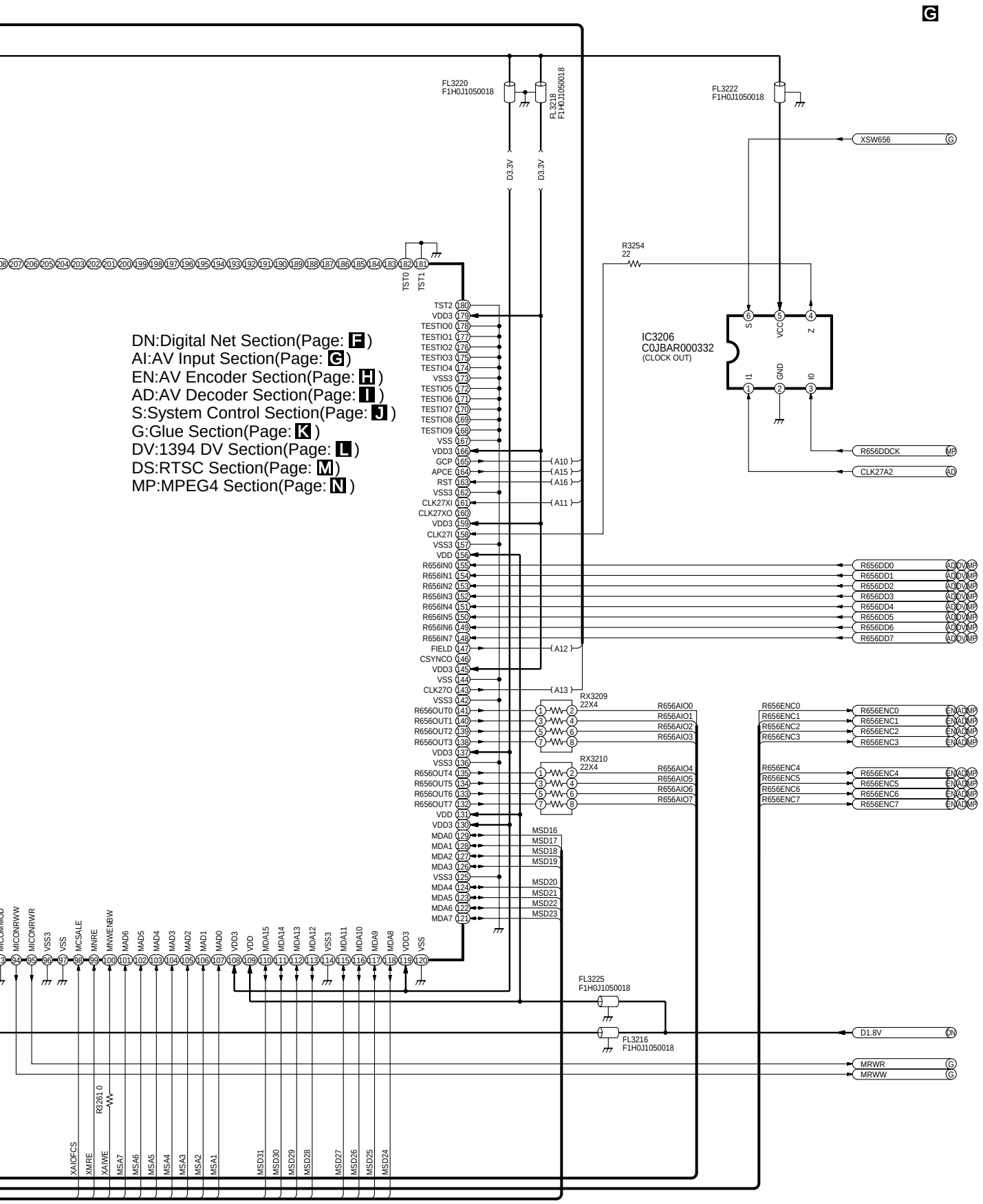


DMR-E100H P/PC/PL AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)


D3.3V
ANA3.3V
D1.8V
R3205 6200
R3204 10K
D3202 MA3S132E0L
D3201 MA3S132E0L
C3211 0.1
C3213 6V22
C3218 0.1
C3217 0.1
FL3207 F1H0J1050018
FL3206 F1H0J1050018
FL3208 F1H0J1050018
FL3205 F1H0J1050018
FL3209 F1H0J1050018
FL3212 F1H0J1050018
C3219 0.1
C3220 0.1
C3221 0.1
C3222 0.1
C3223 0.1
C3224 0.1
C3225 0.1
C3216 0.01
R3216 10K
R3212 22K
R3211 22K
R3217 22
R3218 22
CL3203
CL3204
A5
A6
A7
A8
A9
IC3203
MN673744
(VAD CON)
VSS3 AVDD1 AVSS1 VREFHY VREFHMY VREFMY VREFMLY VREFLY AVSS2 VIDEO AVDD2 AVDD3 AVSS3 VREFHC VREFHMC VREFMC VREFMLC VREFLC AVSS4 CIN AVDD4 AGCO VREFMA AVSS5 ACCO AVDD5 CLPOS AVSS6 TCPOUT AVDD6 VDD3 MINTEST SCANEN SDRPOWUP SDRCLK VSS3 SDRCLKIN VDD3 VDD MODT15 MODT14 VSS3 MODT13 MODT12 VDD3 MODT11 MODT10 VSS3 MODT9 MODT8 VSS VDD3 MODT7 MODT6 VSS3 MODT5 MODT4 VDD3 MODT3 MODT2
DT15 DT14 DT13 DT12 DT11 DT10 DT9 DT8 DT7 DT6 DT5 DT4 DT3 DT2
VSS3 MODT1 MODT0 VDD VDD3 MOBA MOAP VSS3 MOAD9 MOAD8 VDD3 MOAD7 MOAD6 VSS3 MOAD5 MOAD4 VSS VDD3 MOAD3 MOAD2 VSS3 MOAD1 MOAD0 VDD3 MOCS MORAS VSS3 VDD MOCAS MOWE VDD3 MICOMSEL MICOMMOD MICONRWW MICONRWR VSS3 VSS MCSALE MNRE
RX3205 33X4
RX3206 33X4
RX3207 33X4
RX3208 33X4
AD11 AD10 AD9 AD8 AD7 AD6 AD5 AD4 AD3 AD2 AD1 AD0
CS RAS CAS WE
XAIOFCS XMRE
R3261 0

DMR-E100H P/PC/PL AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWIN
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR A

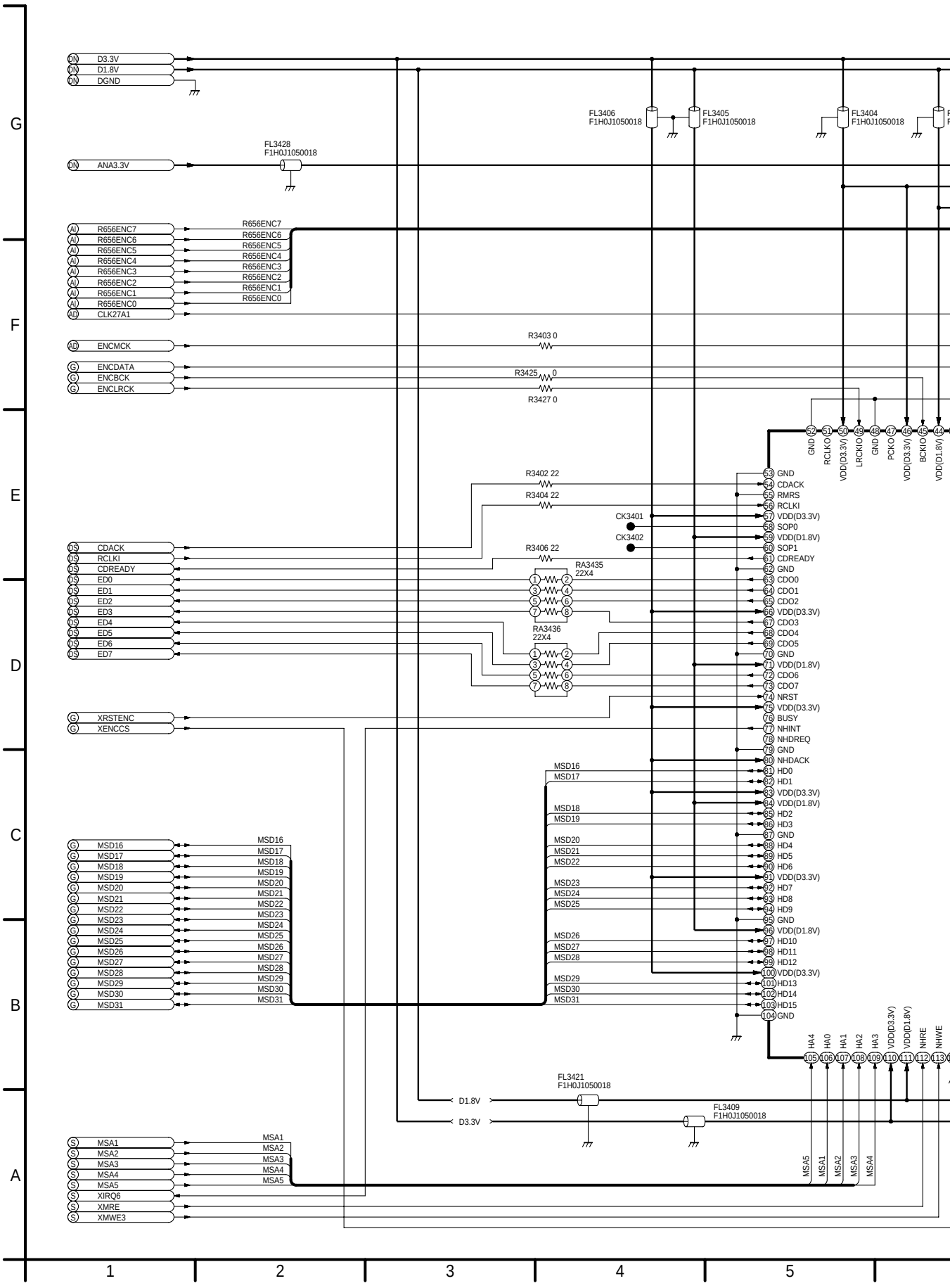


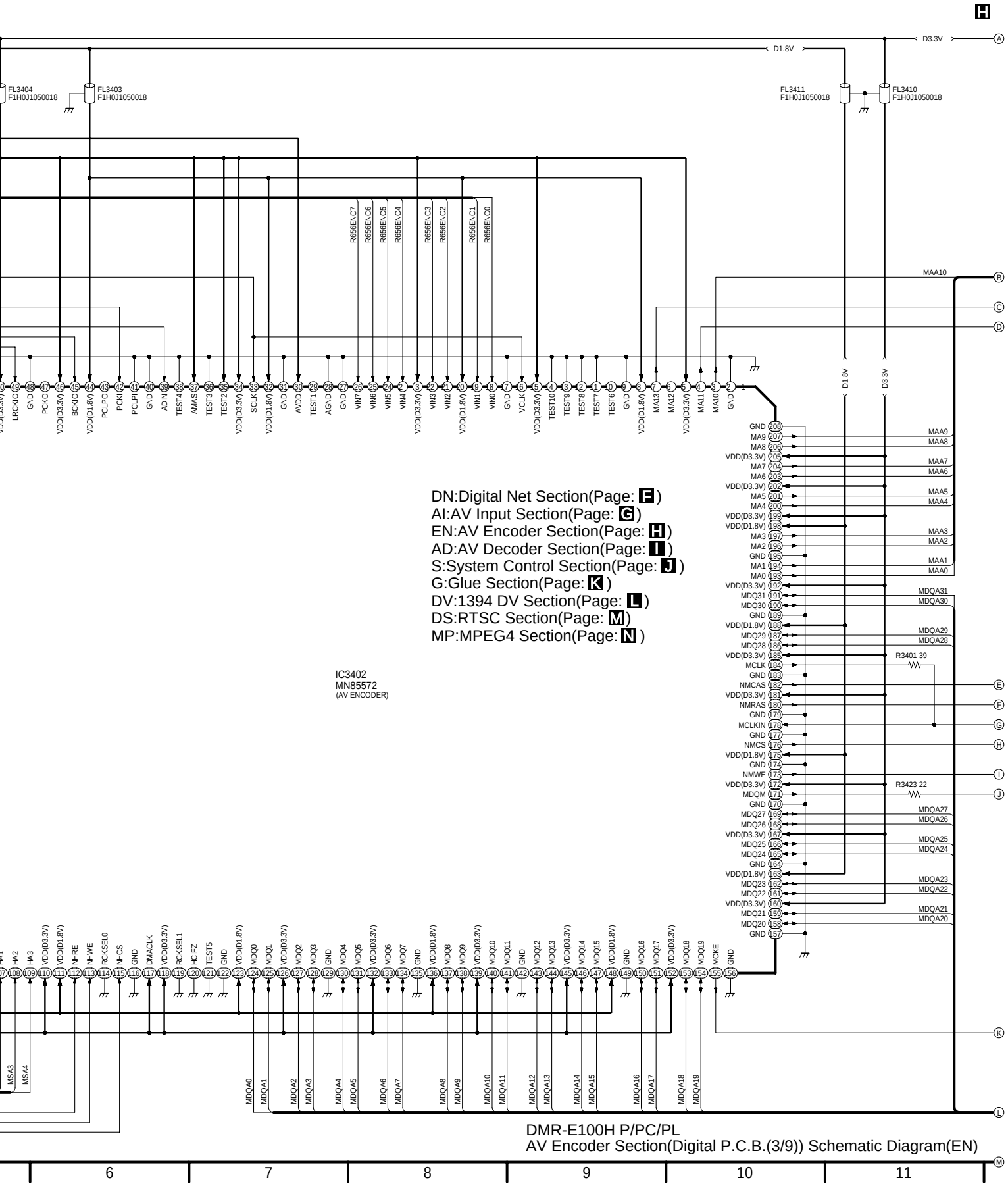
BER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL AV Input Section(Digital P.C.B.(2/9)) Schematic Diagram(AI)

17 | 18 | 19 | 20 | 21 | 22

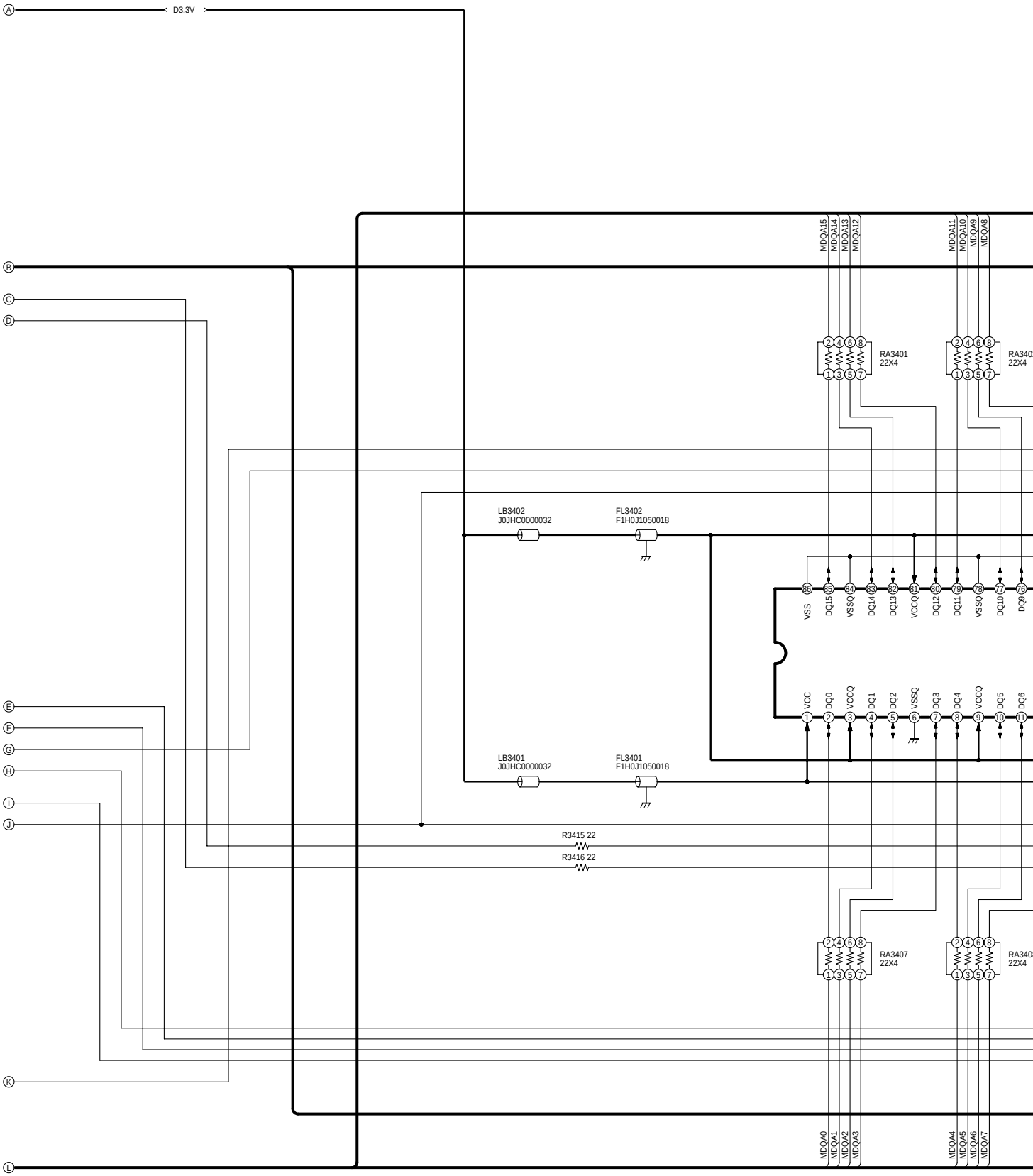
14.10. AV Encoder Schematic Diagram (EN) (Digital P.C.B. 3/9)





DMR-E100H P/PC/PL
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

6 7 8 9 10 11

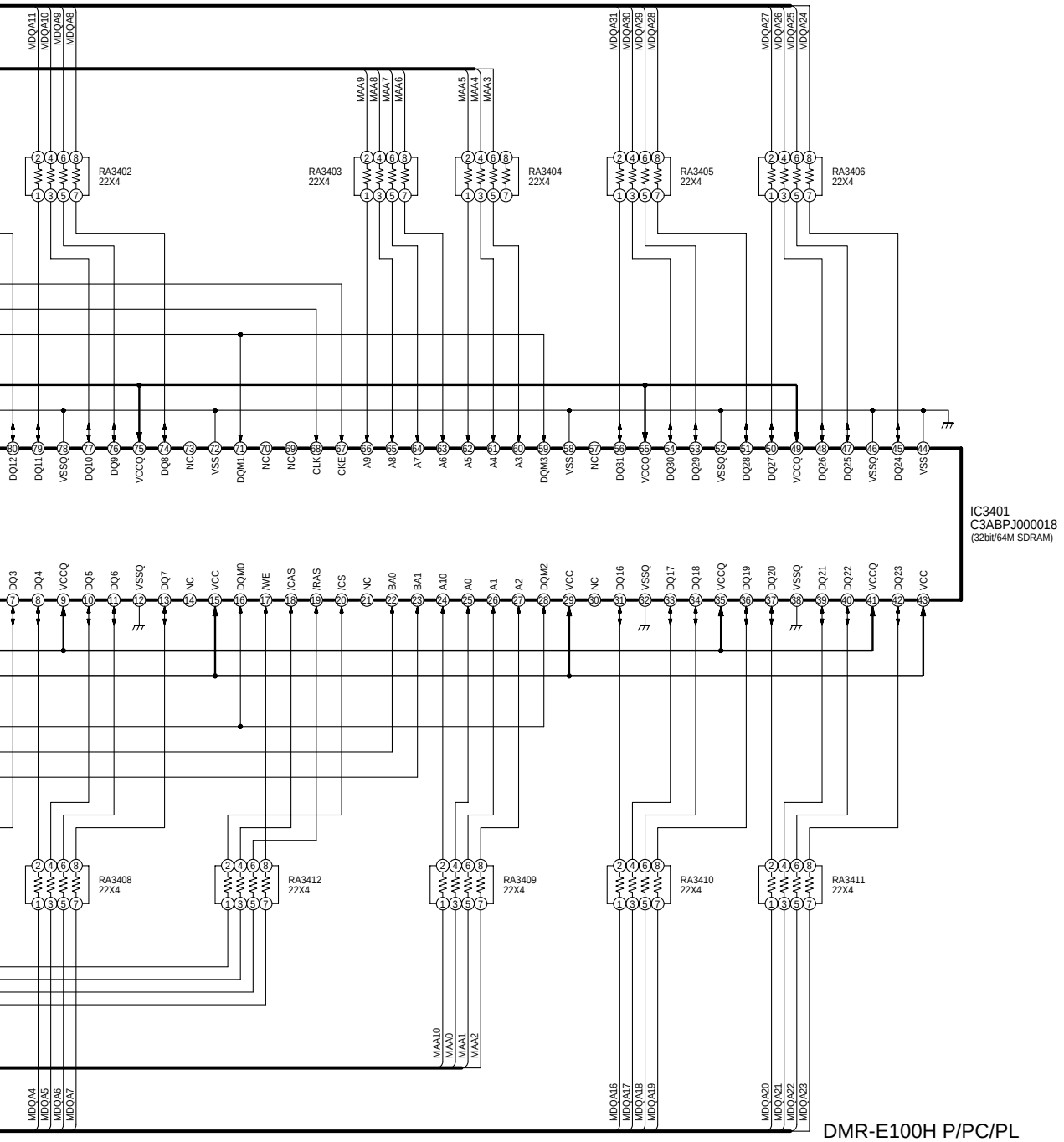


DMR-E100H P/PC/PL
AV Encoder Section(Digital P.C.B.(3/9)) Schematic Diagram(EN)

NOTE:DO NOT USE THE PAR
IN THE PARTS LIST,AL

12 13 14 15 16 17

DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

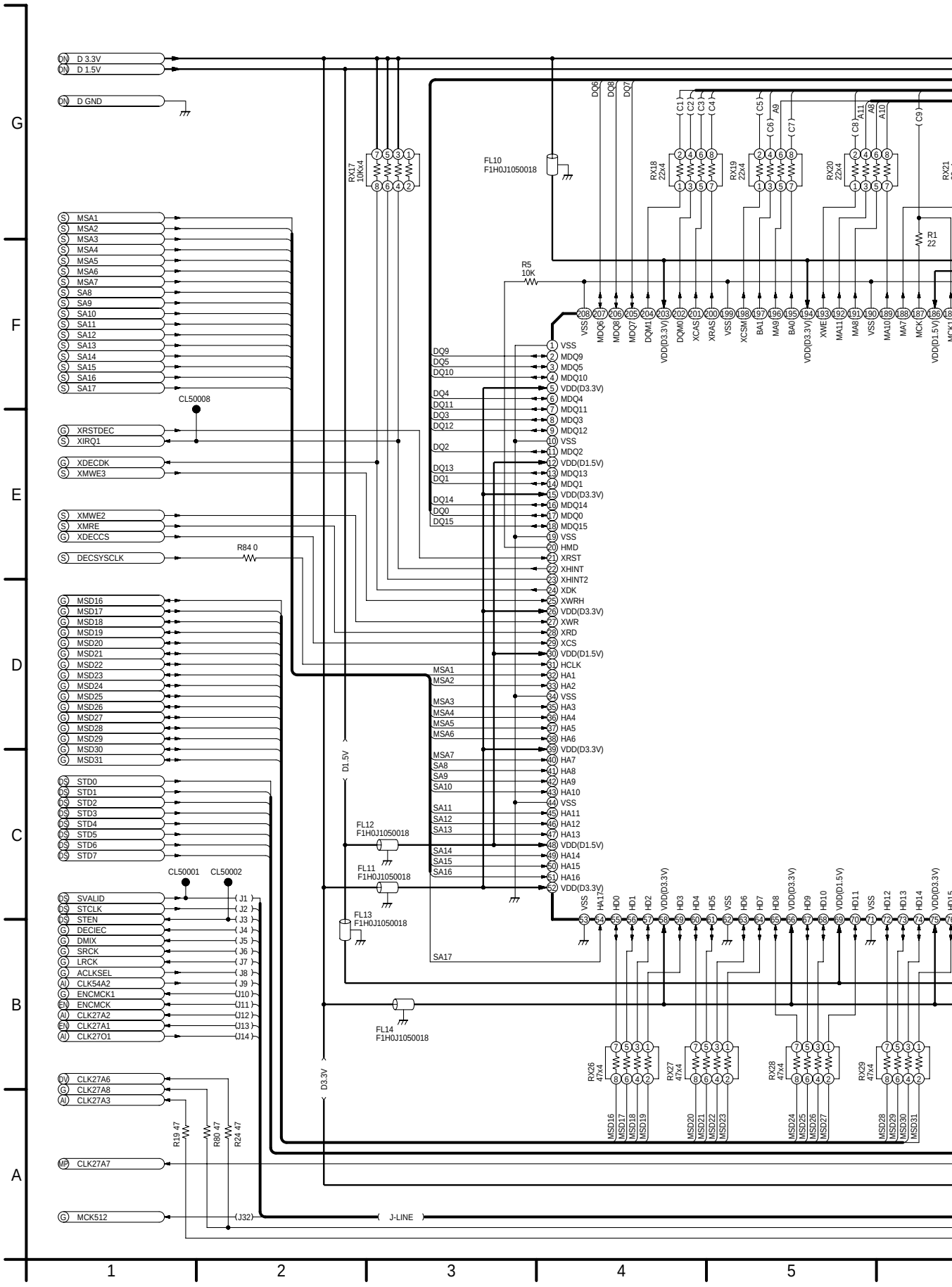


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

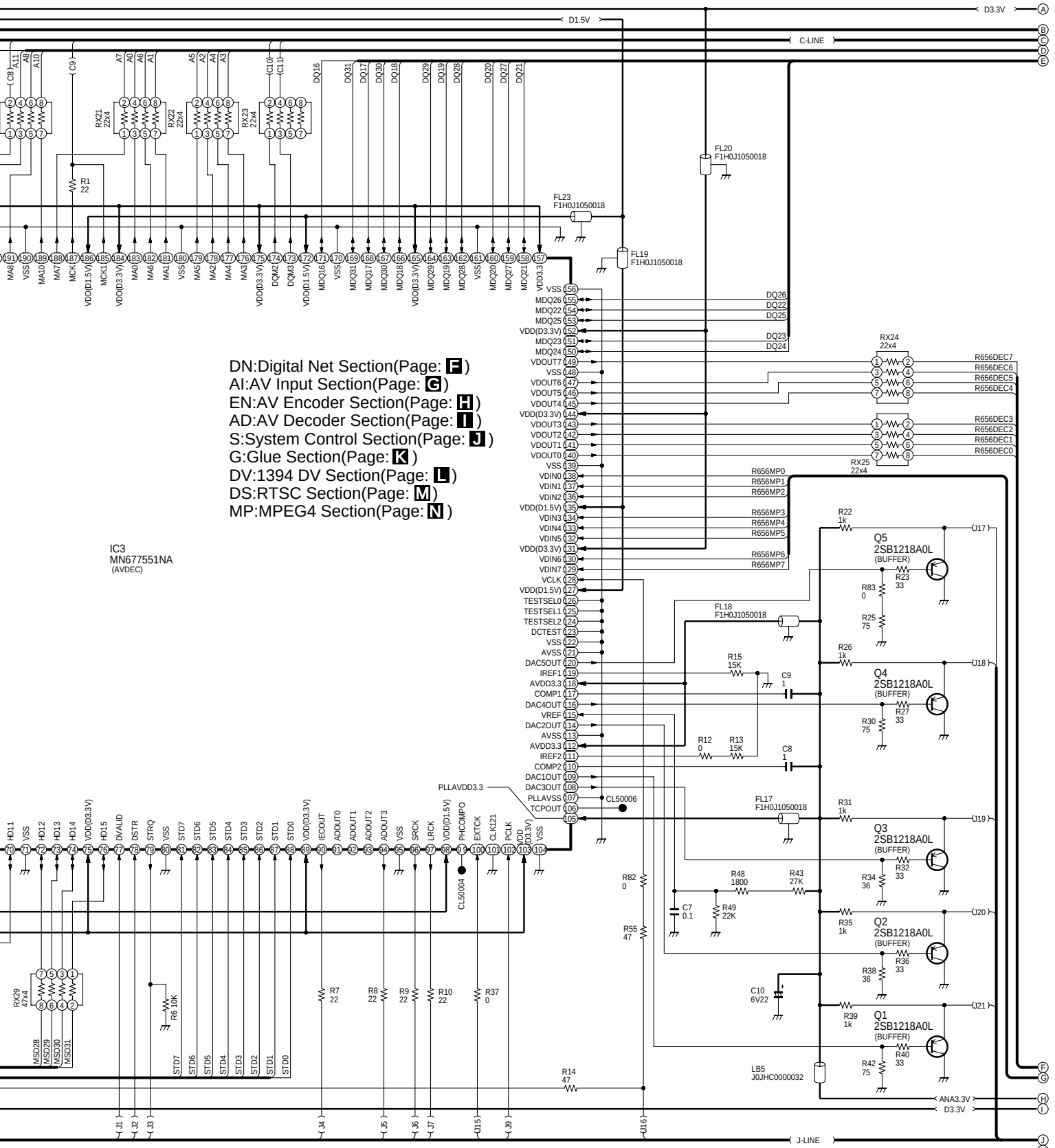
DMR-E100H P/PC/PL
AV Encoder Section(Digital P.C.B.(3/9))
Schematic Diagram(EN)

17 | 18 | 19 | 20 | 21 | 22

14.11. AV Decoder Schematic Diagram (AD) (Digital P.C.B. 4/9)

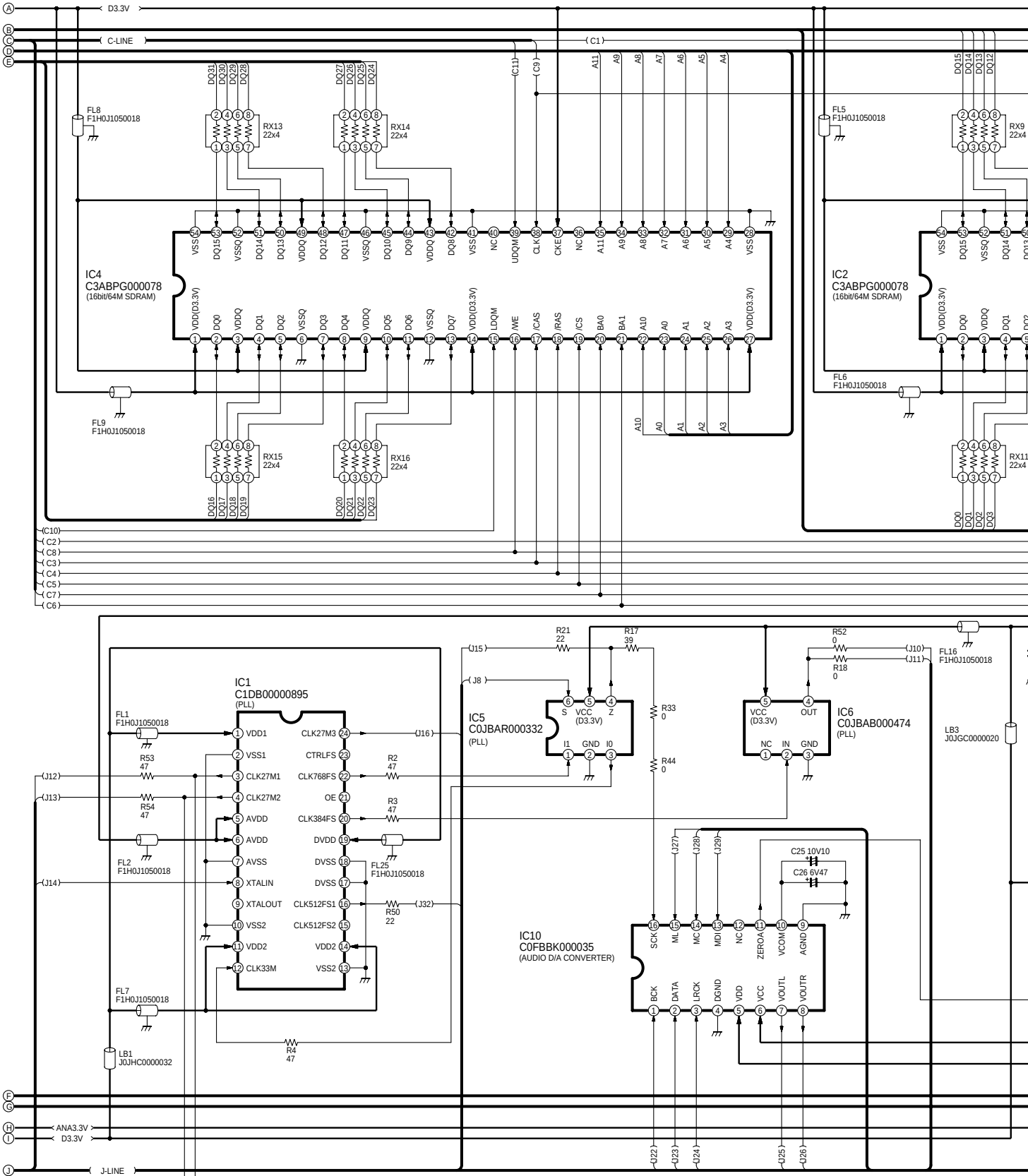


I



DMR-E100H P/PC/PL AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

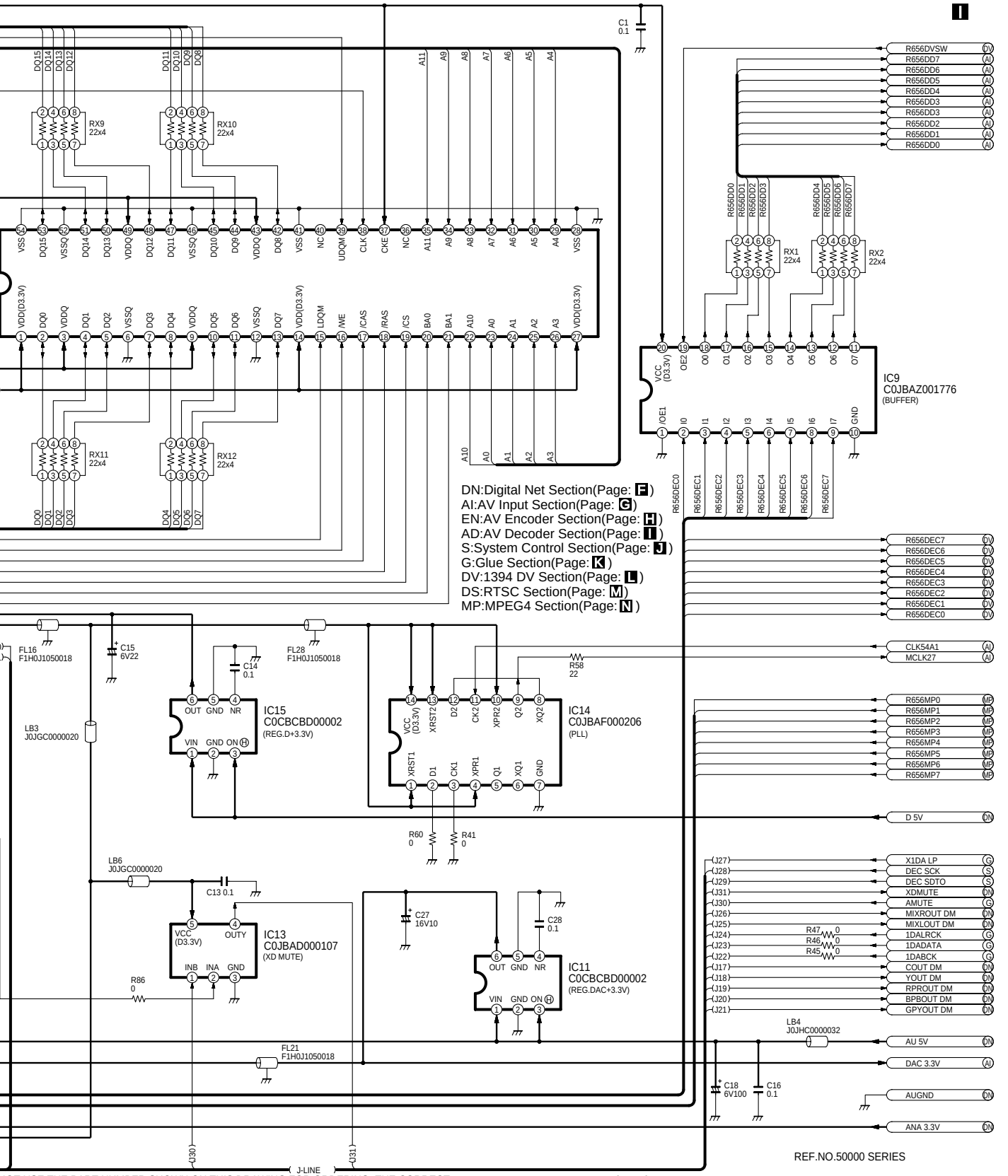
6 | 7 | 8 | 9 | 10 | 11



DMR-E100H P/PC/PL
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

NOTE:DO NOT USE THE PART N
PART NUMBER IS SHOWN
SINCE THIS DRAWING WA

12 13 14 15 16 17



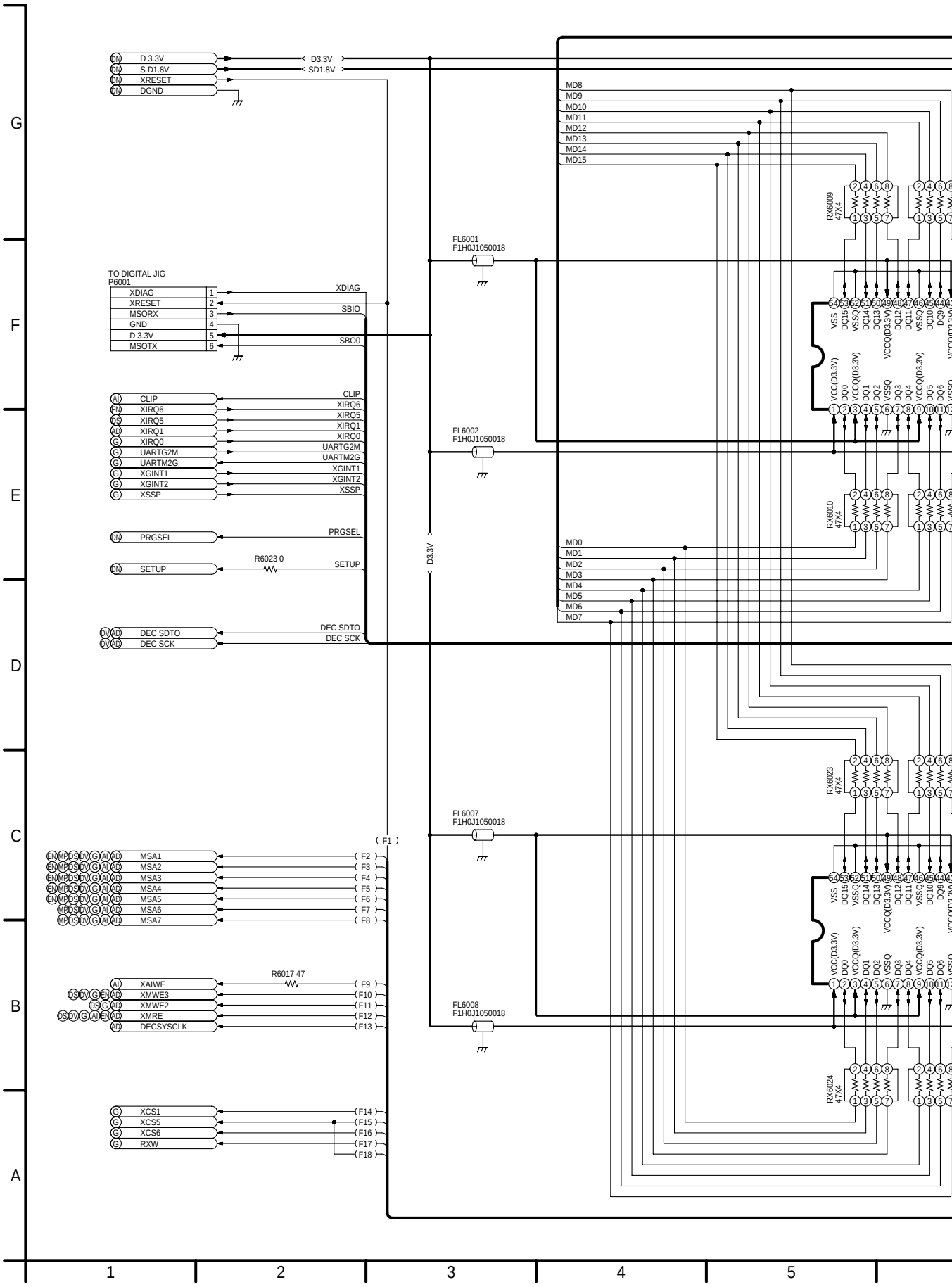
REF.NO.50000 SERIES

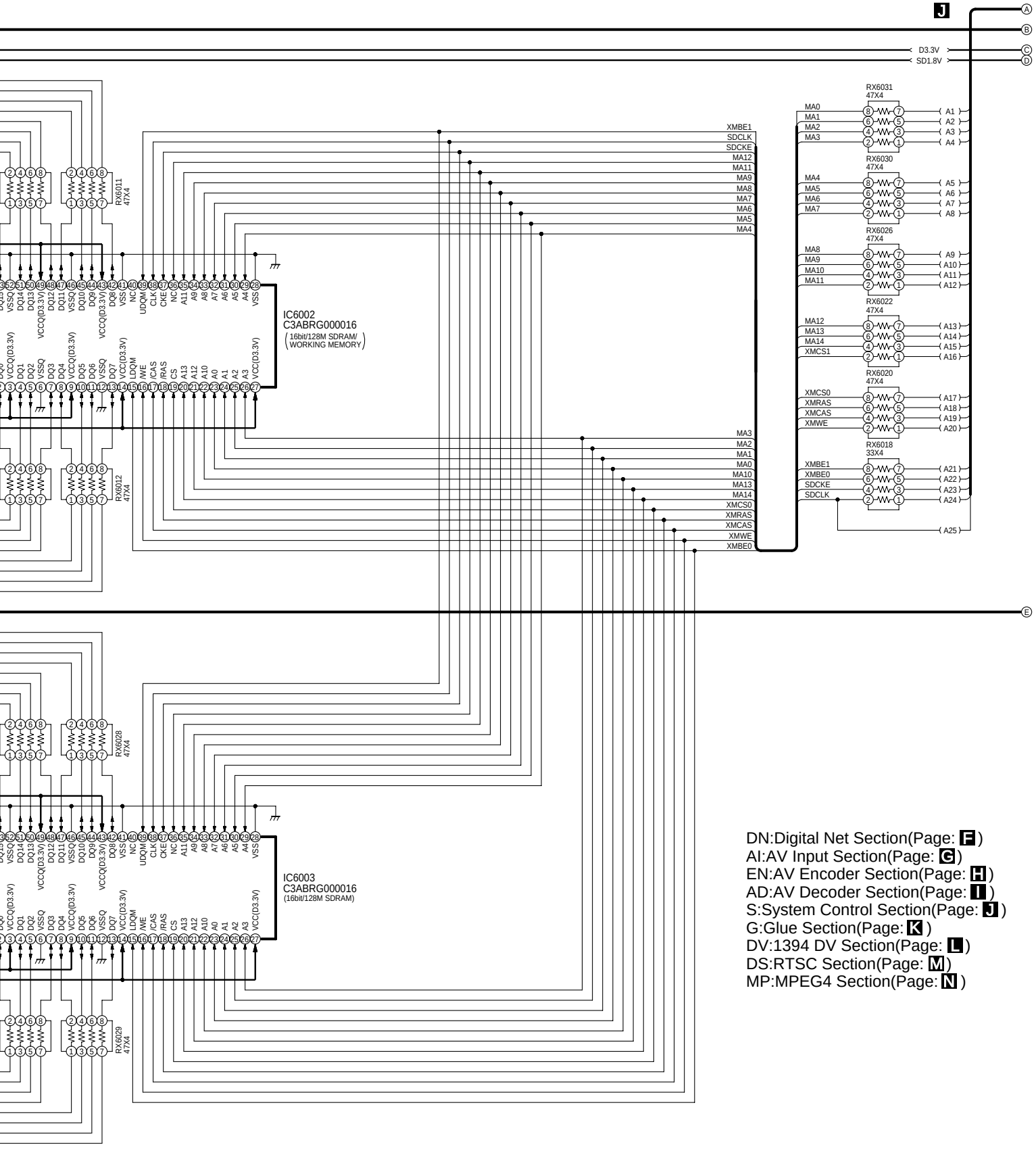
NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT
T NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED
CE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
AV Decoder Section(Digital P.C.B.(4/9)) Schematic Diagram(AD)

17 | 18 | 19 | 20 | 21 | 22

14.12. System Control Schematic Diagram (S) (Digital P.C.B. 5/9)

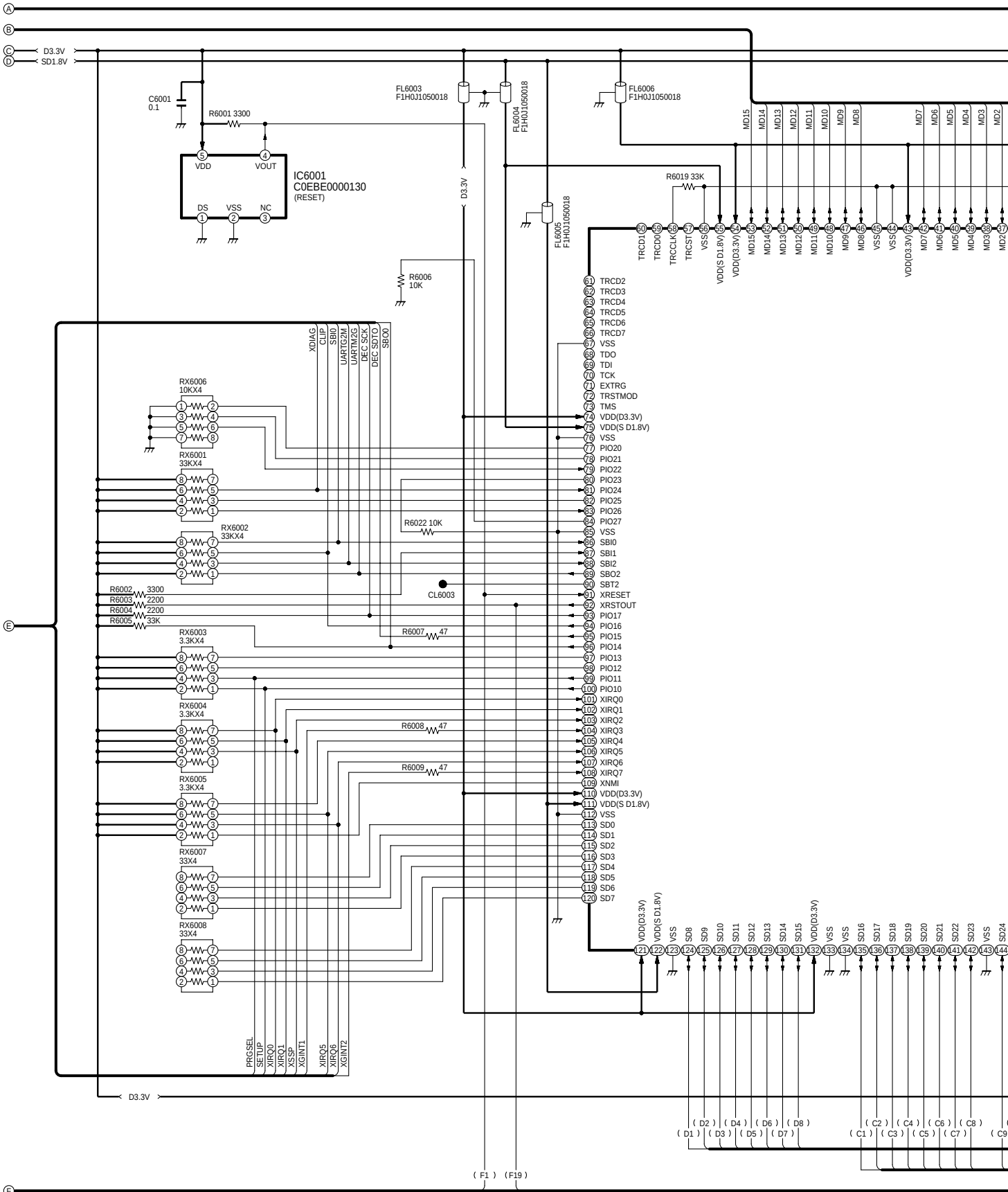




DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

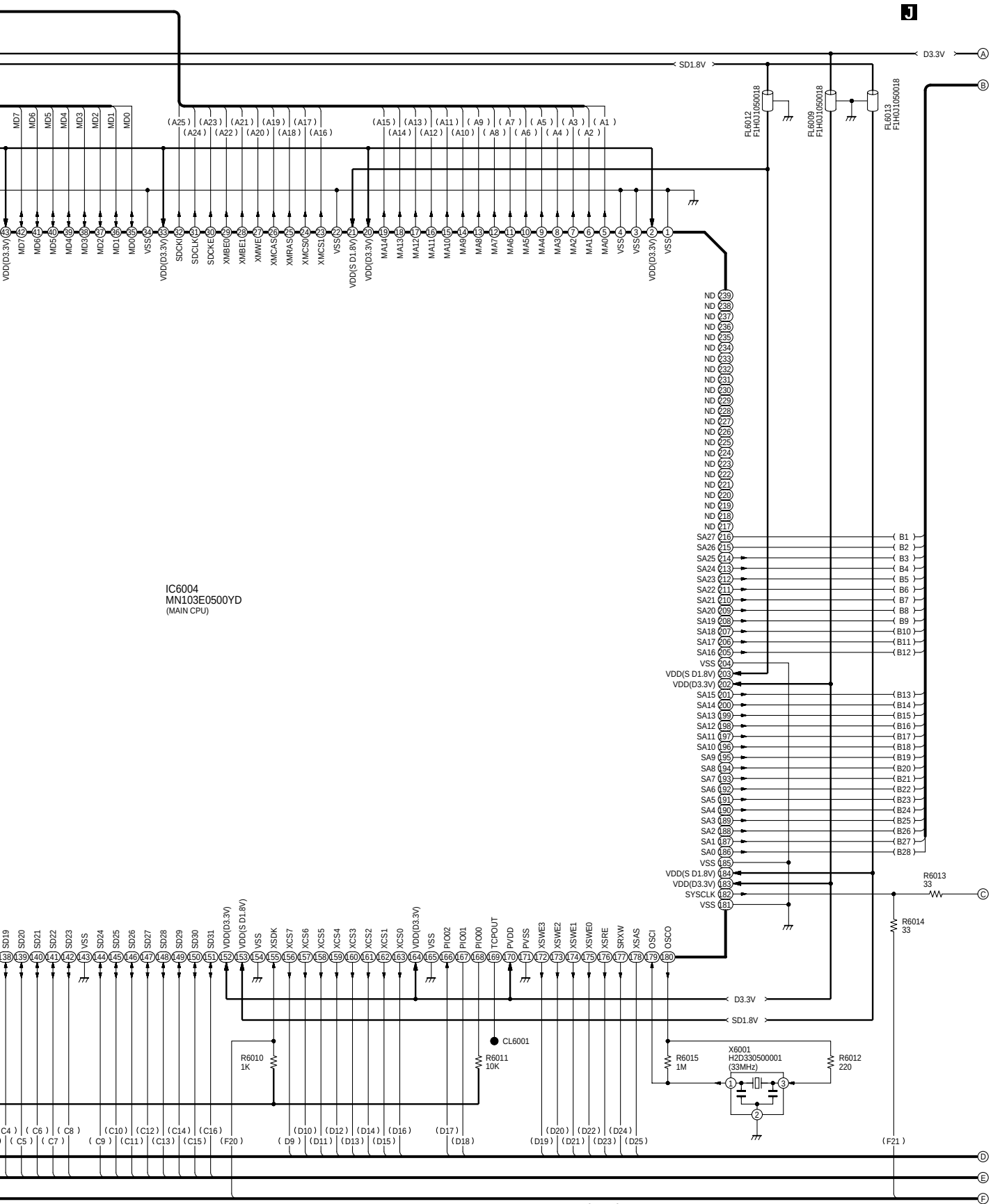
DMR-E100H P/PC/PL
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

6 7 8 9 10 11



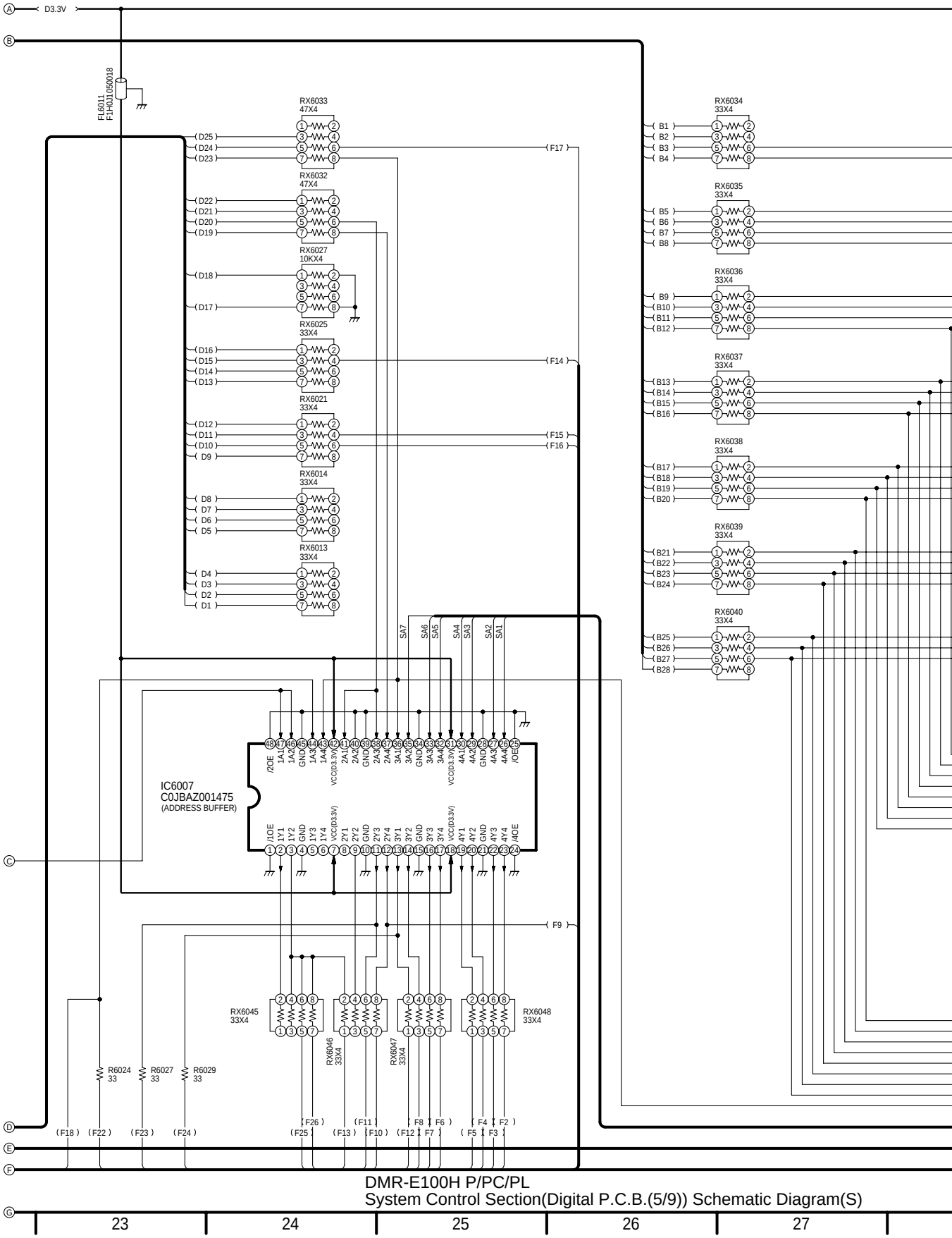
DMR-E100H P/PC/PL
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

12 | 13 | 14 | 15 | 16 | 17



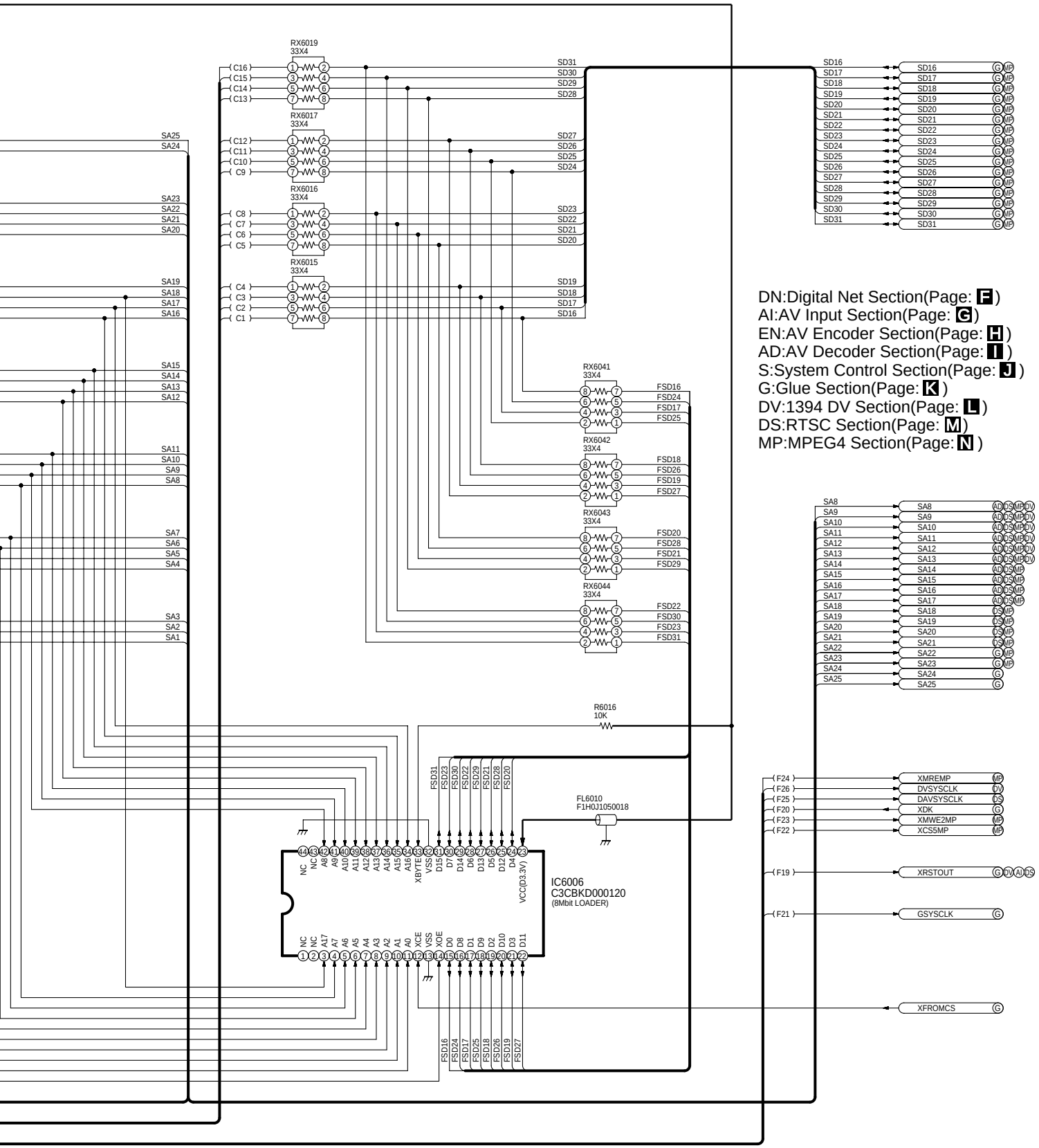
DMR-E100H P/PC/PL
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

17 | 18 | 19 | 20 | 21 | 22



DMR-E100H P/PC/PL
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

J

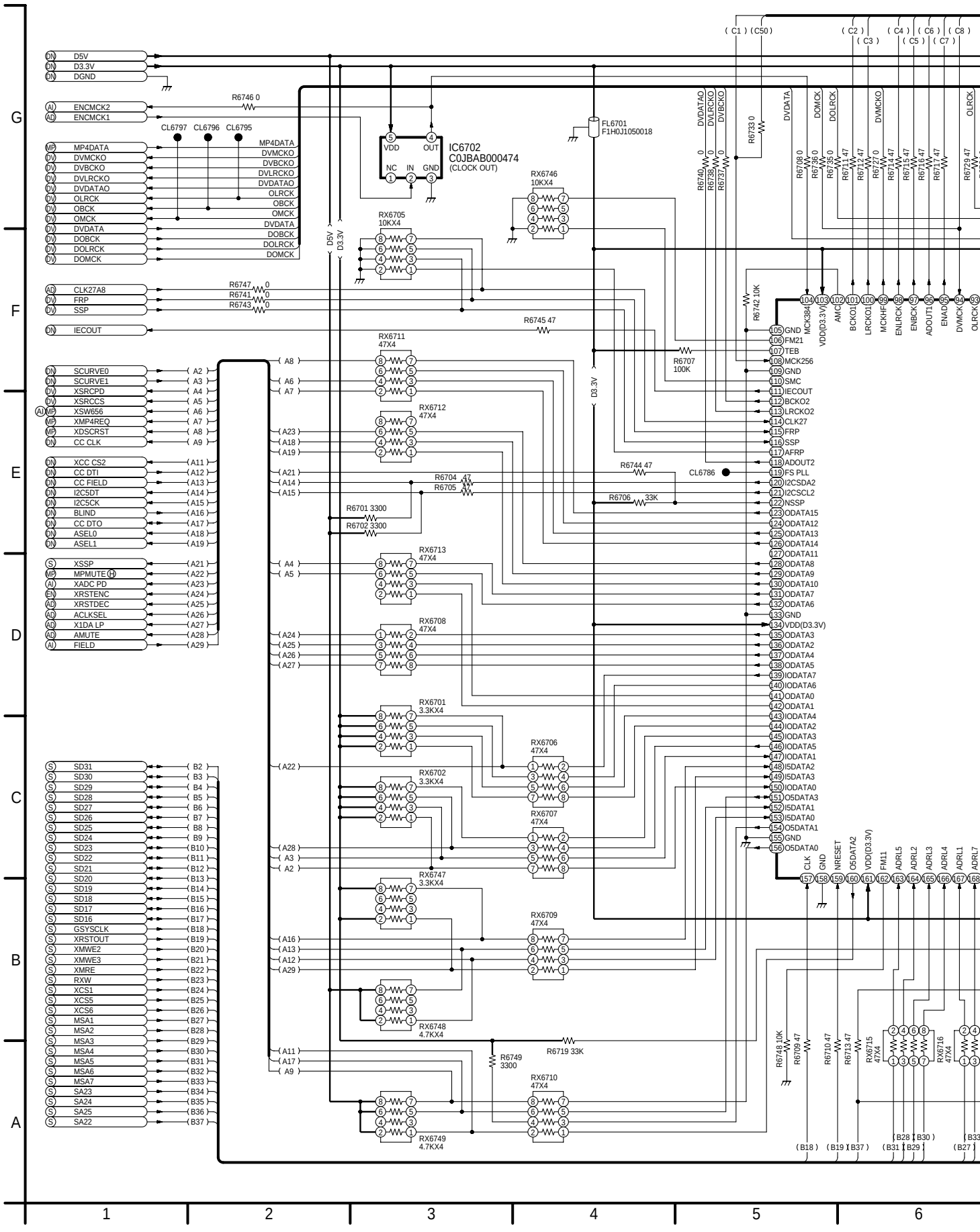


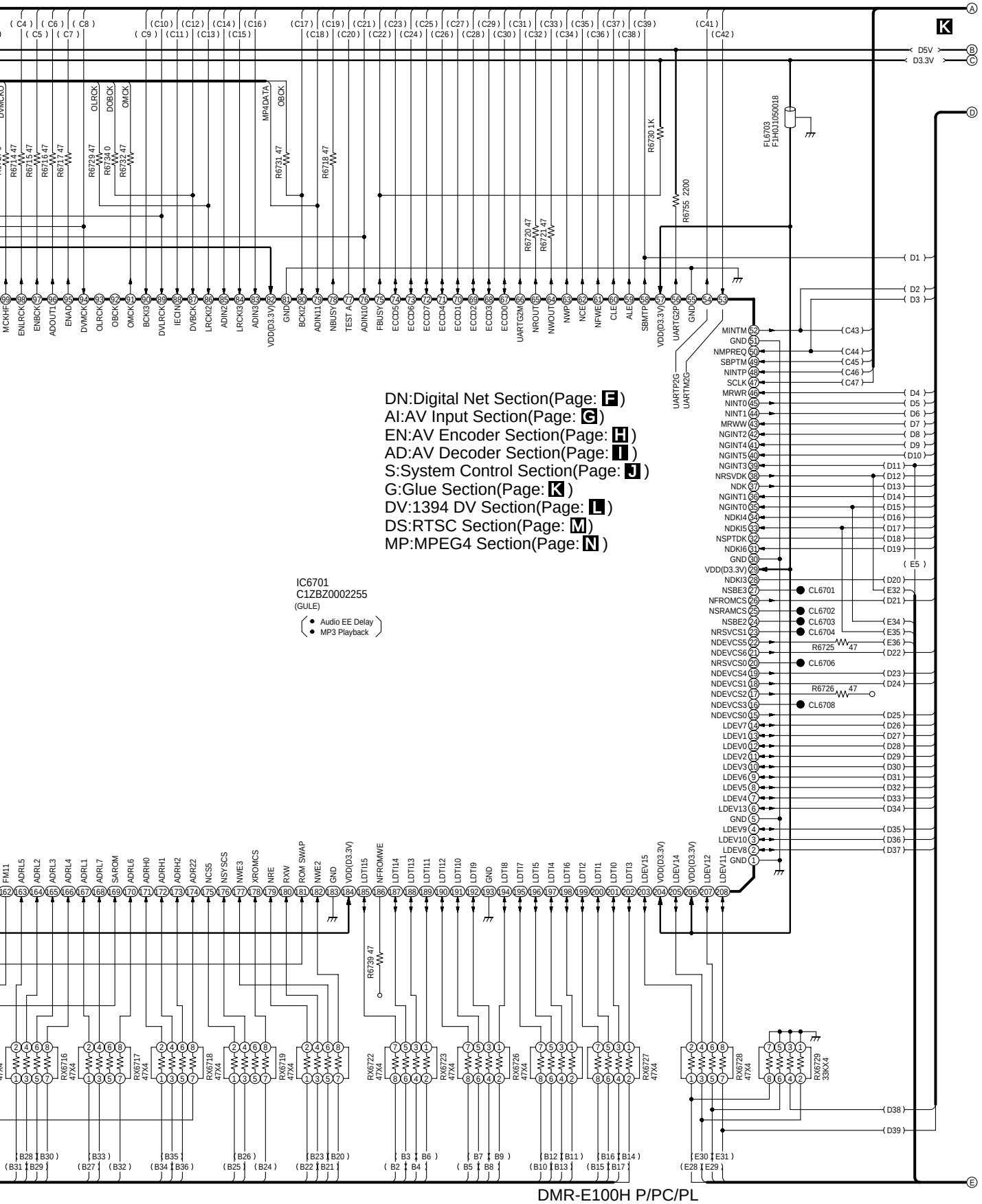
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM
FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E100H P/PC/PL
System Control Section(Digital P.C.B.(5/9)) Schematic Diagram(S)

28 29 30 31 32 33

14.13. Glue Schematic Diagram (G) (Digital P.C.B. 6/9)

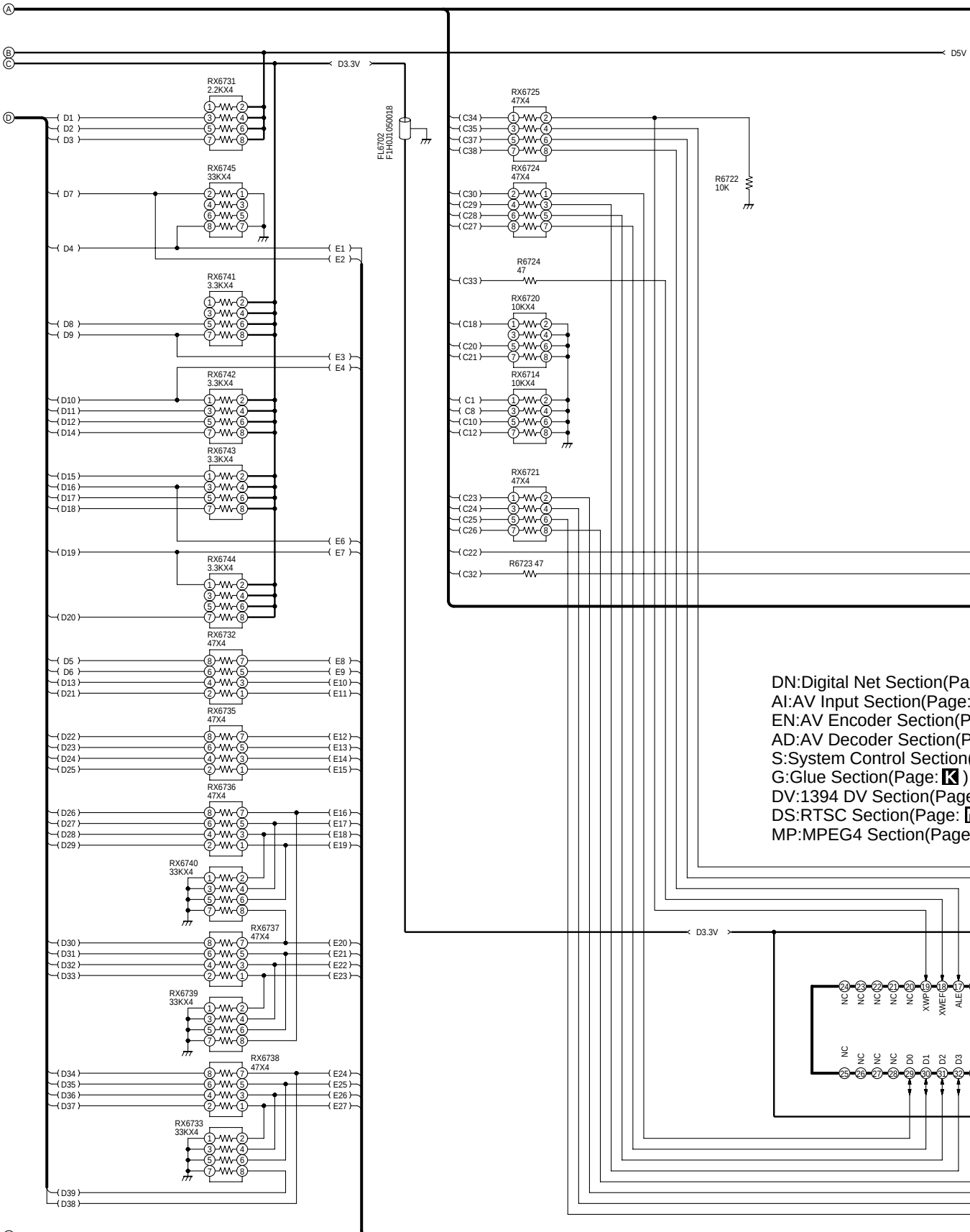




DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

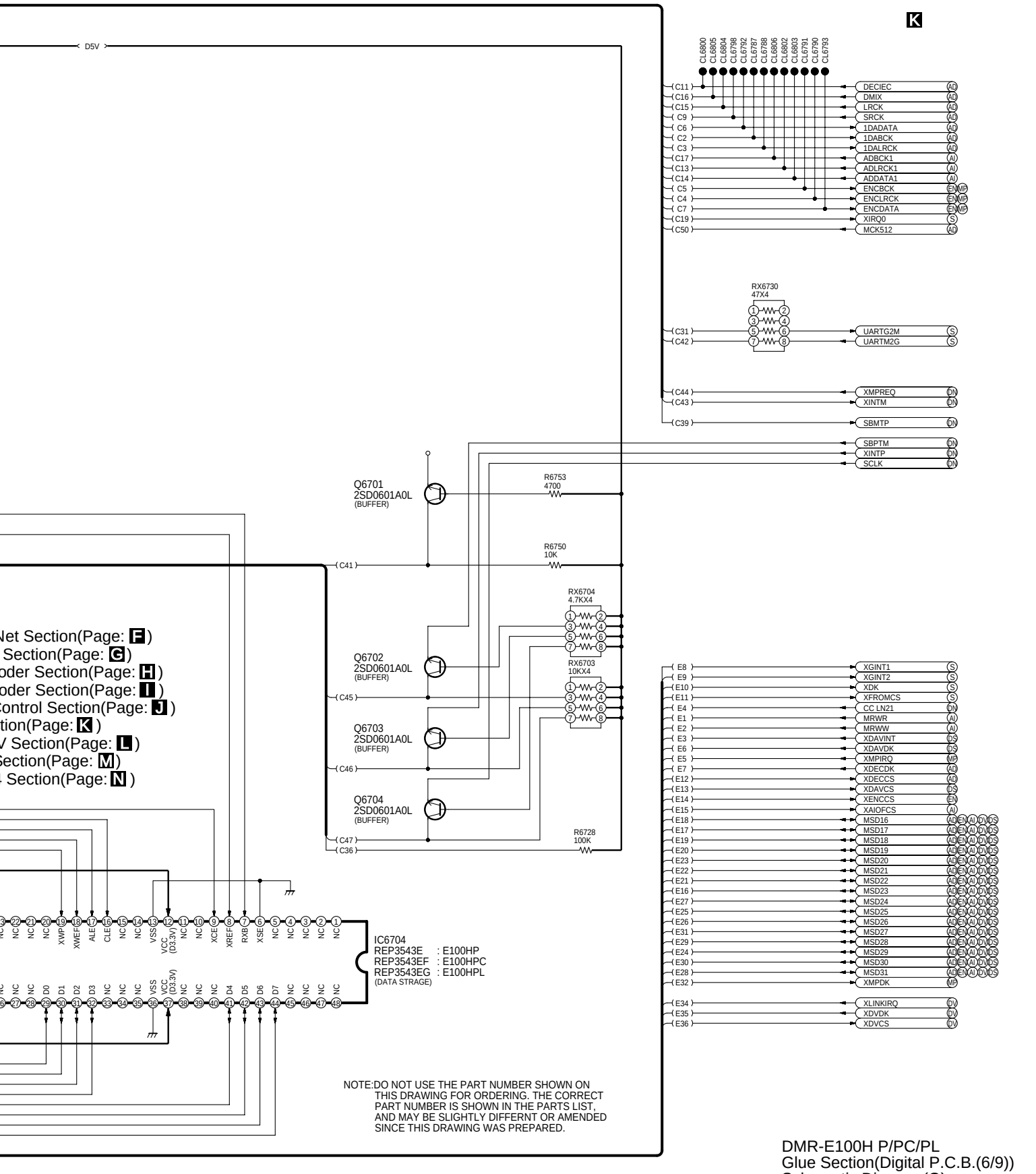
DMR-E100H P/PC/PL
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

6 | 7 | 8 | 9 | 10 | 11



DMR-E100H P/PC/PL
Glue Section(Digital P.C.B.(6/9)) Schematic Diagram(G)

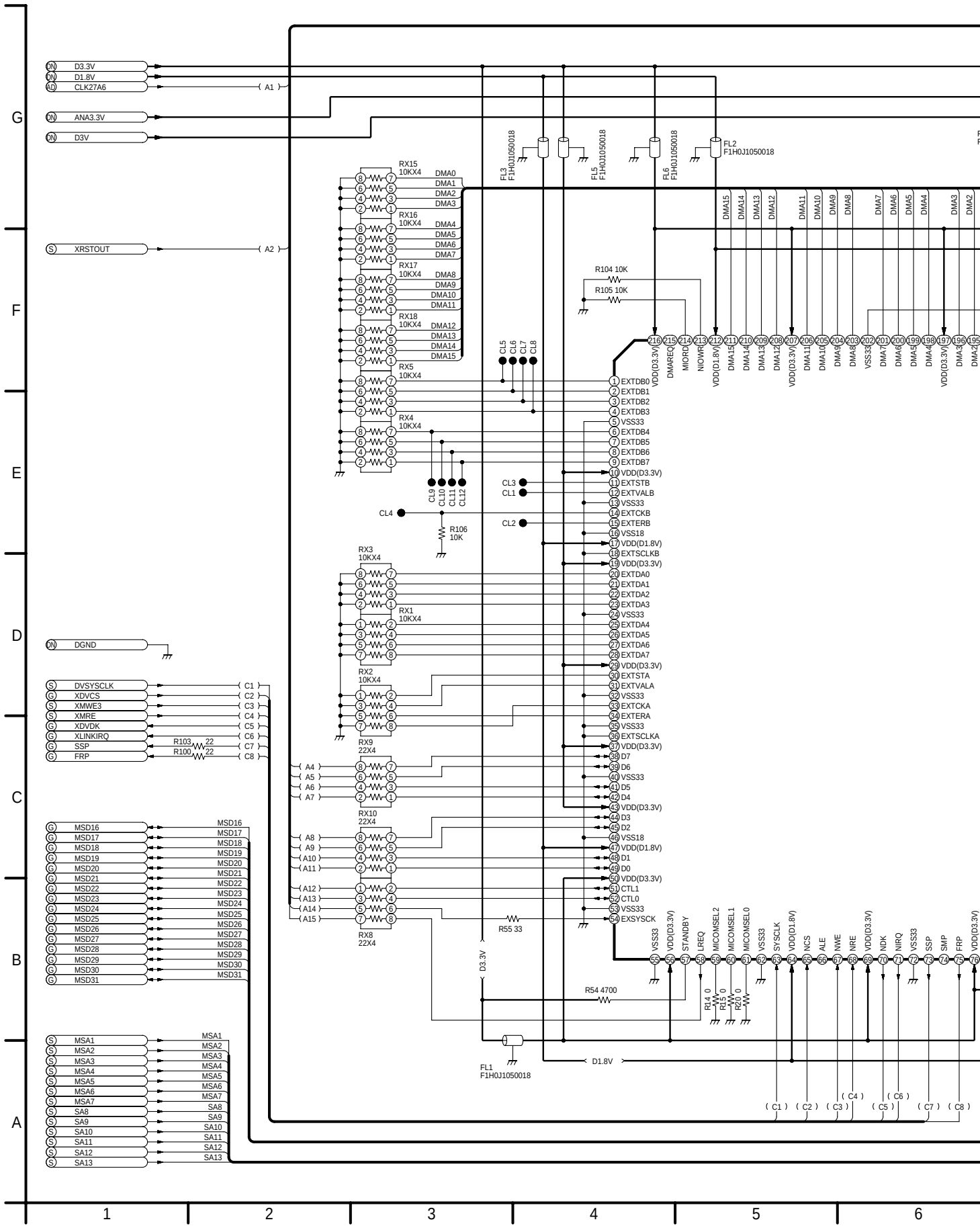
12 | 13 | 14 | 15 | 16 | 17

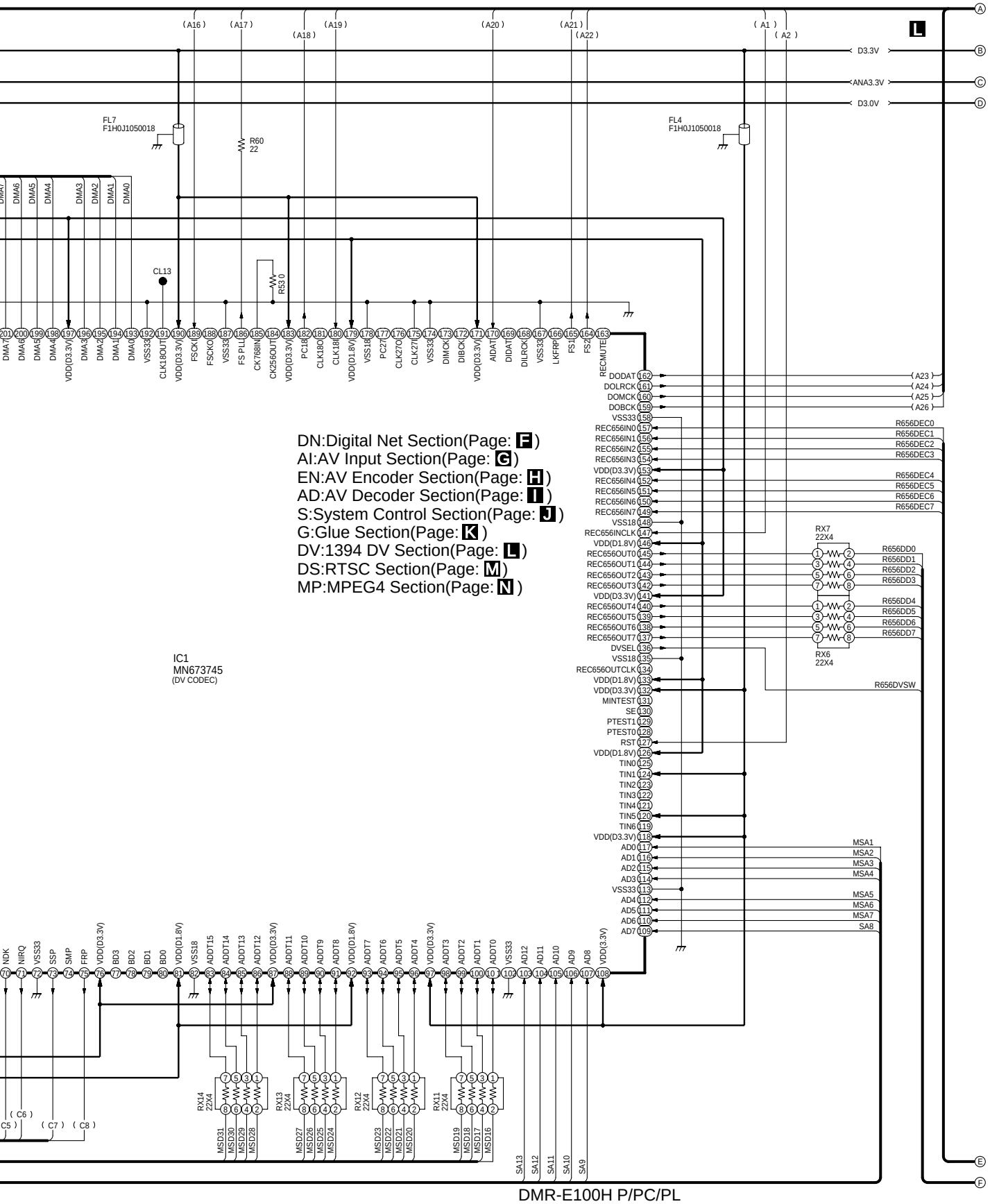


DMR-E100H P/PC/PL
Glue Section(Digital P.C.B.(6/9))
Schematic Diagram(G)

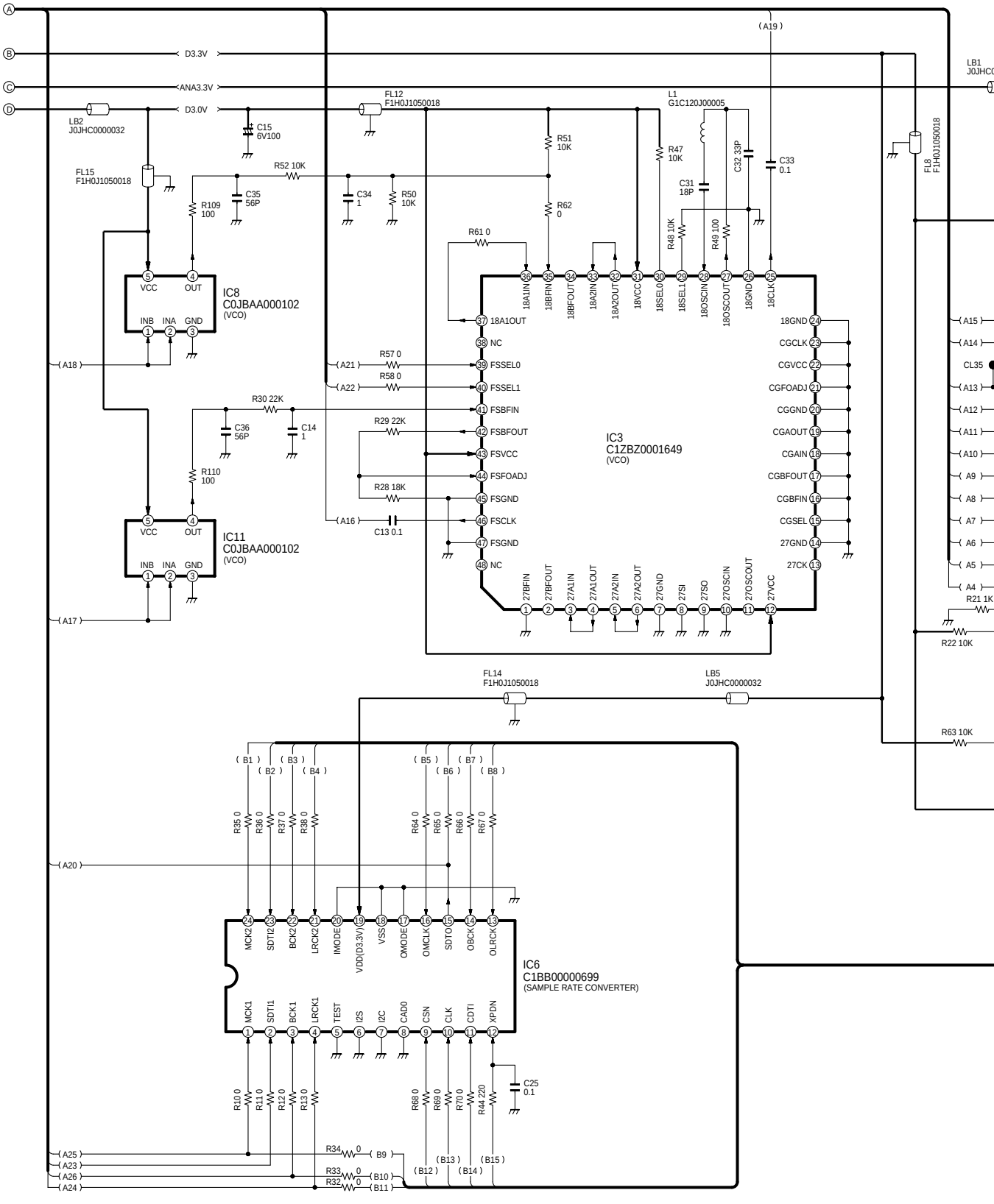
17 | 18 | 19 | 20 | 21 | 22

14.14. 1394 DV Schematic Diagram (DV) (Digital P.C.B. 7/9)

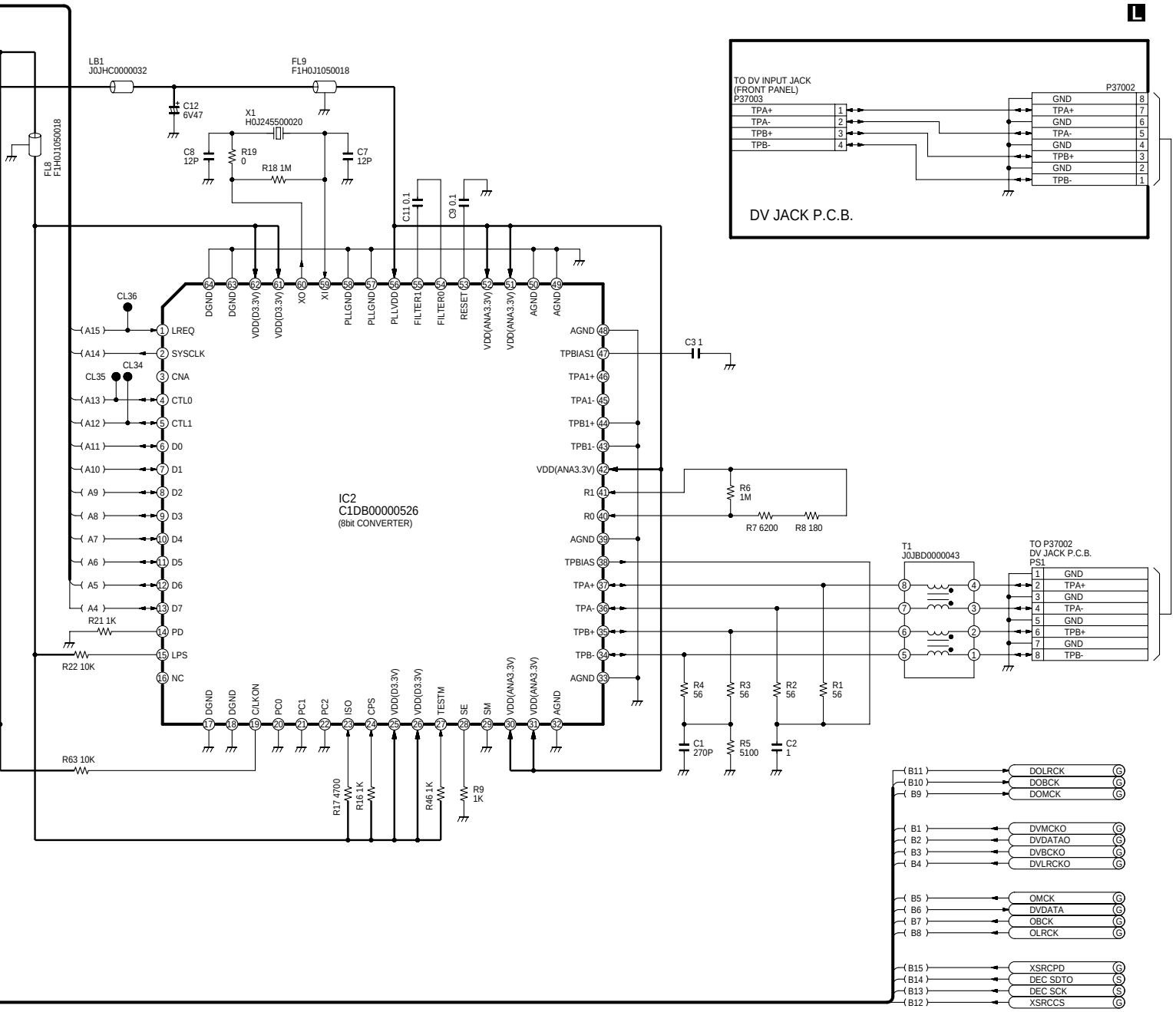




DMR-E100H P/PC/PL
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)



DMR-E100H P/PC/PL
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)



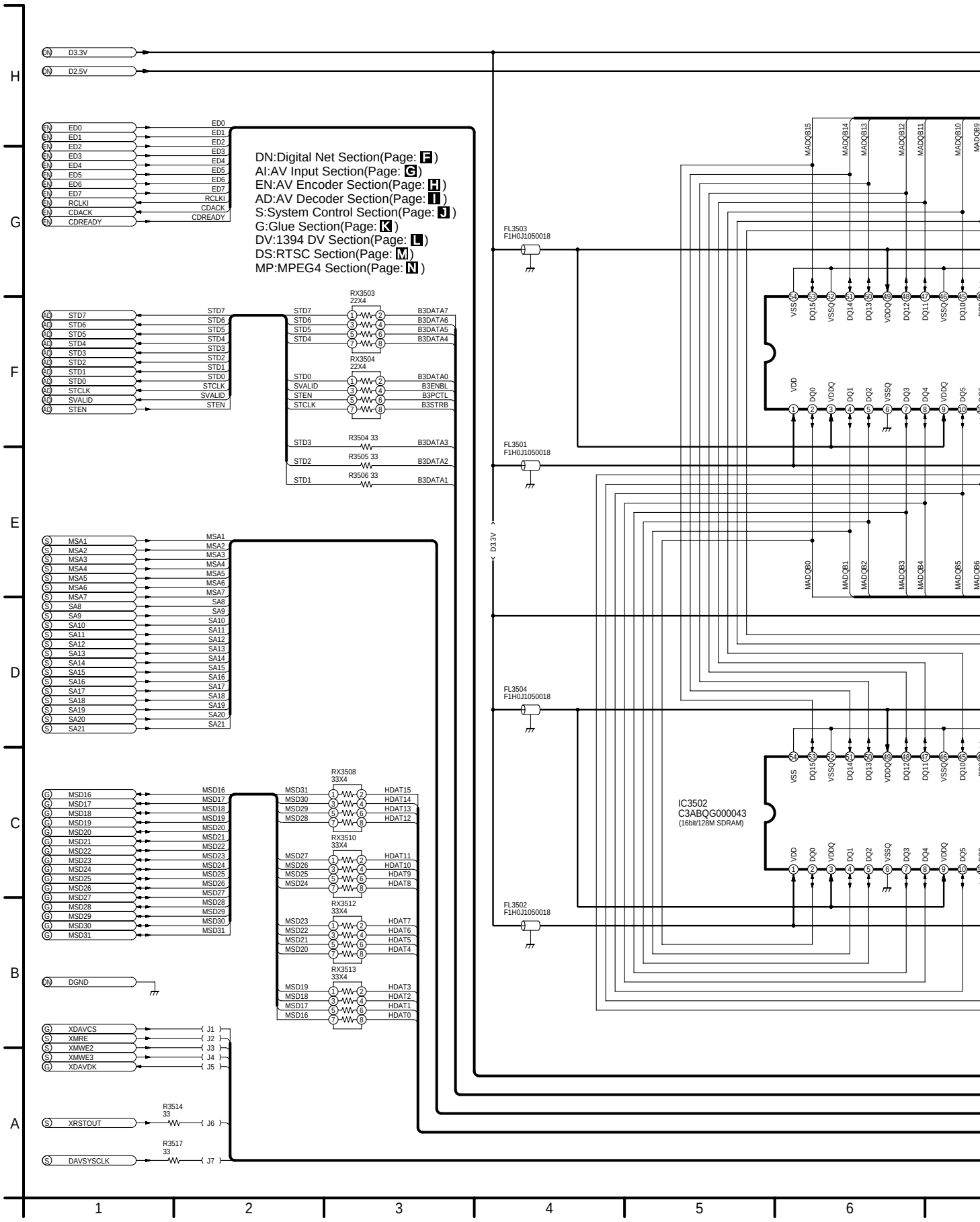
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)

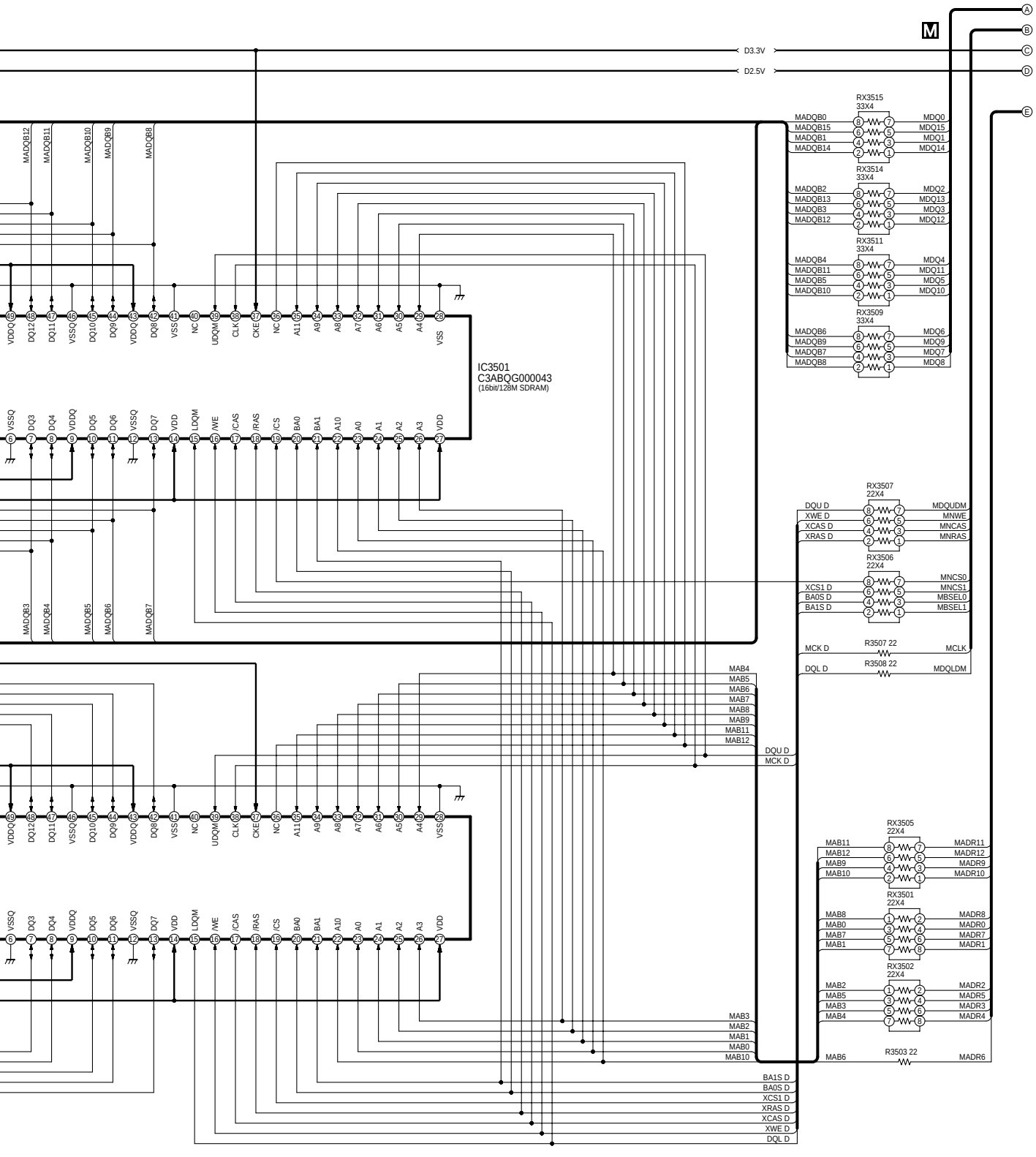
REF NO.37000 SERIES

DMR-E100H P/PC/PL
1394 DV Section(Digital P.C.B.(7/9)) Schematic Diagram(DV)

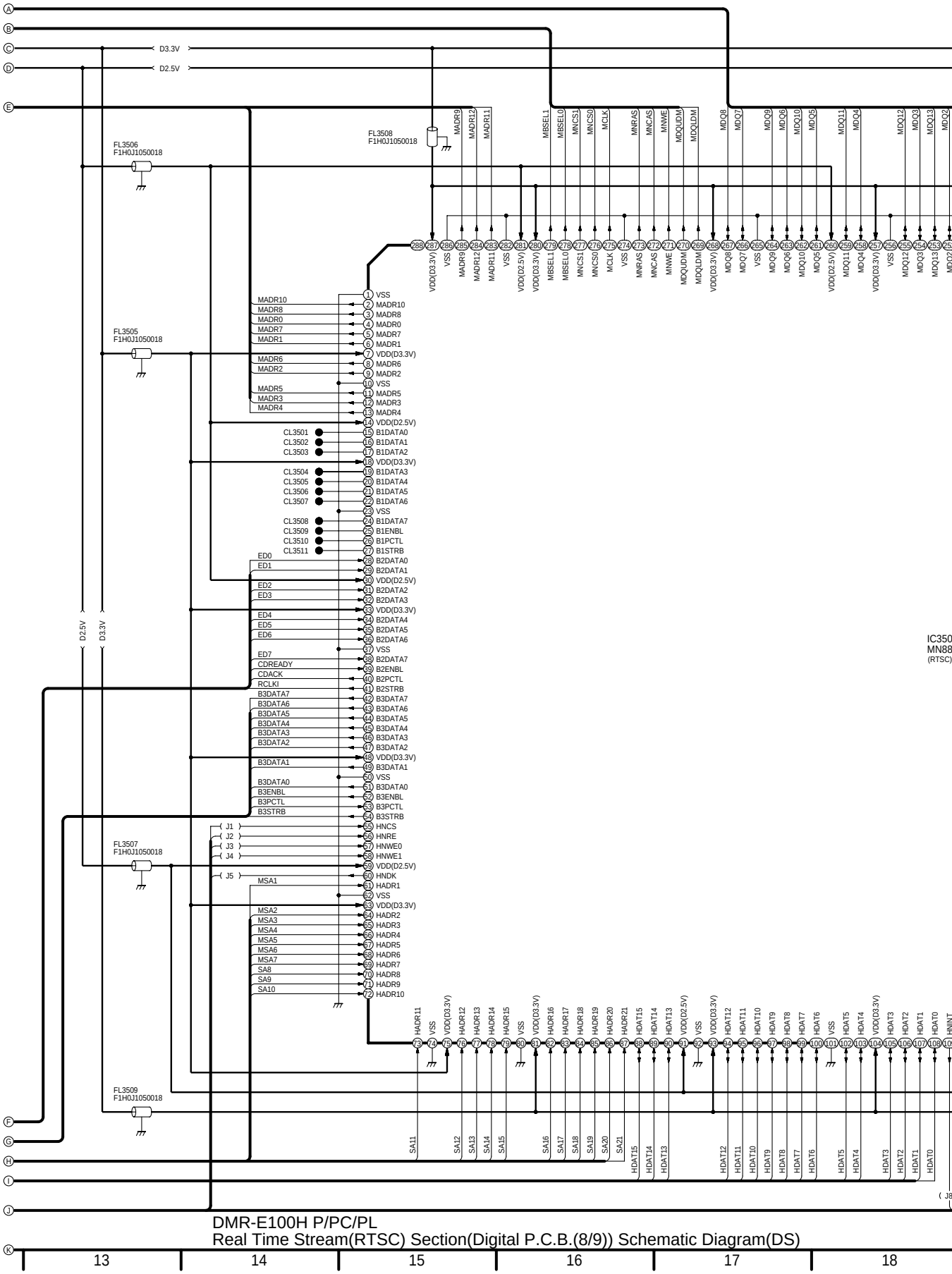
17 | 18 | 19 | 20 | 21 | 22

14.15. Real Time Stream (RTSC) Schematic Diagram (DS) (Digital P.C.B. 8/9)

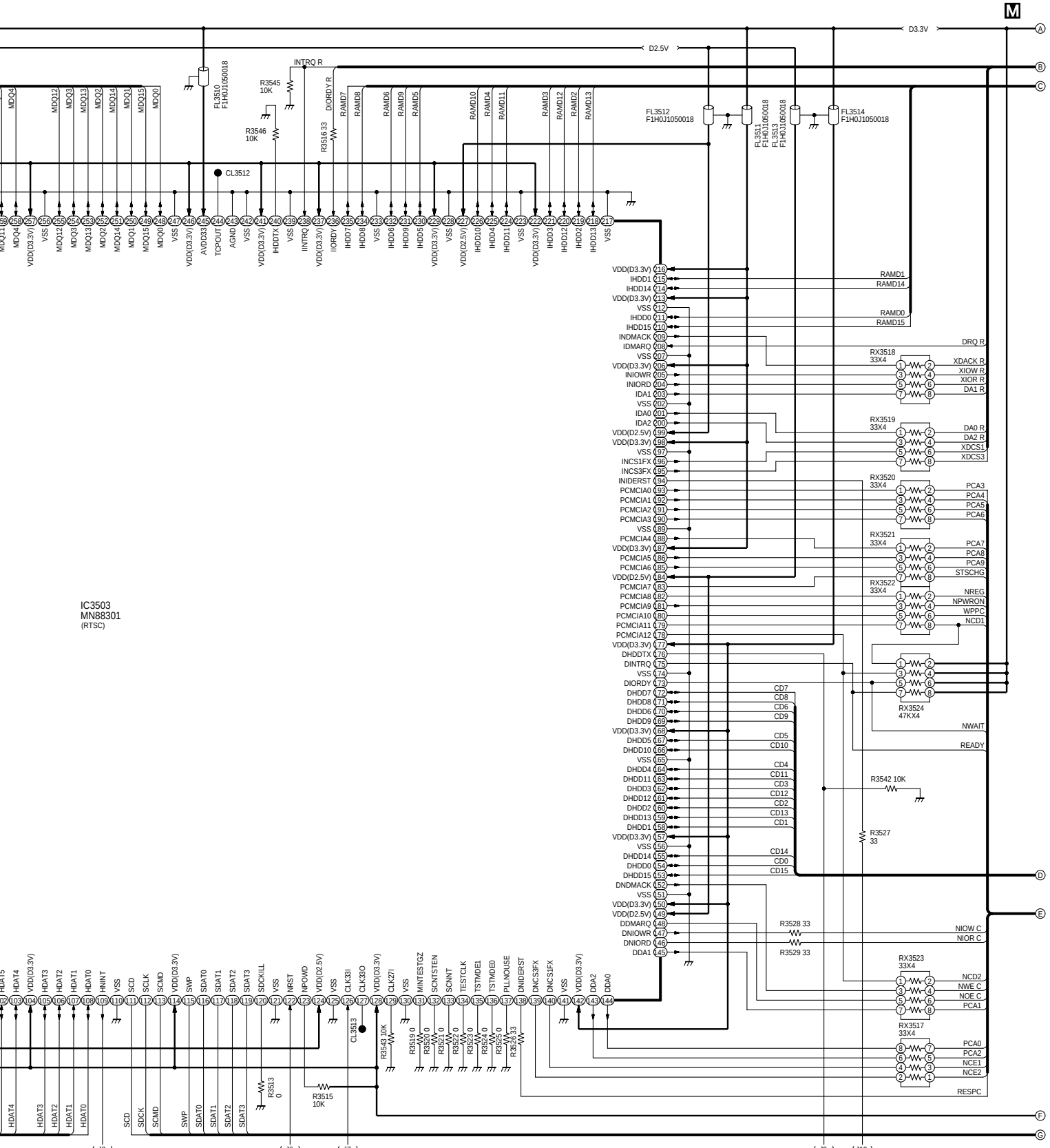




DMR-E100H P/PC/PL
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

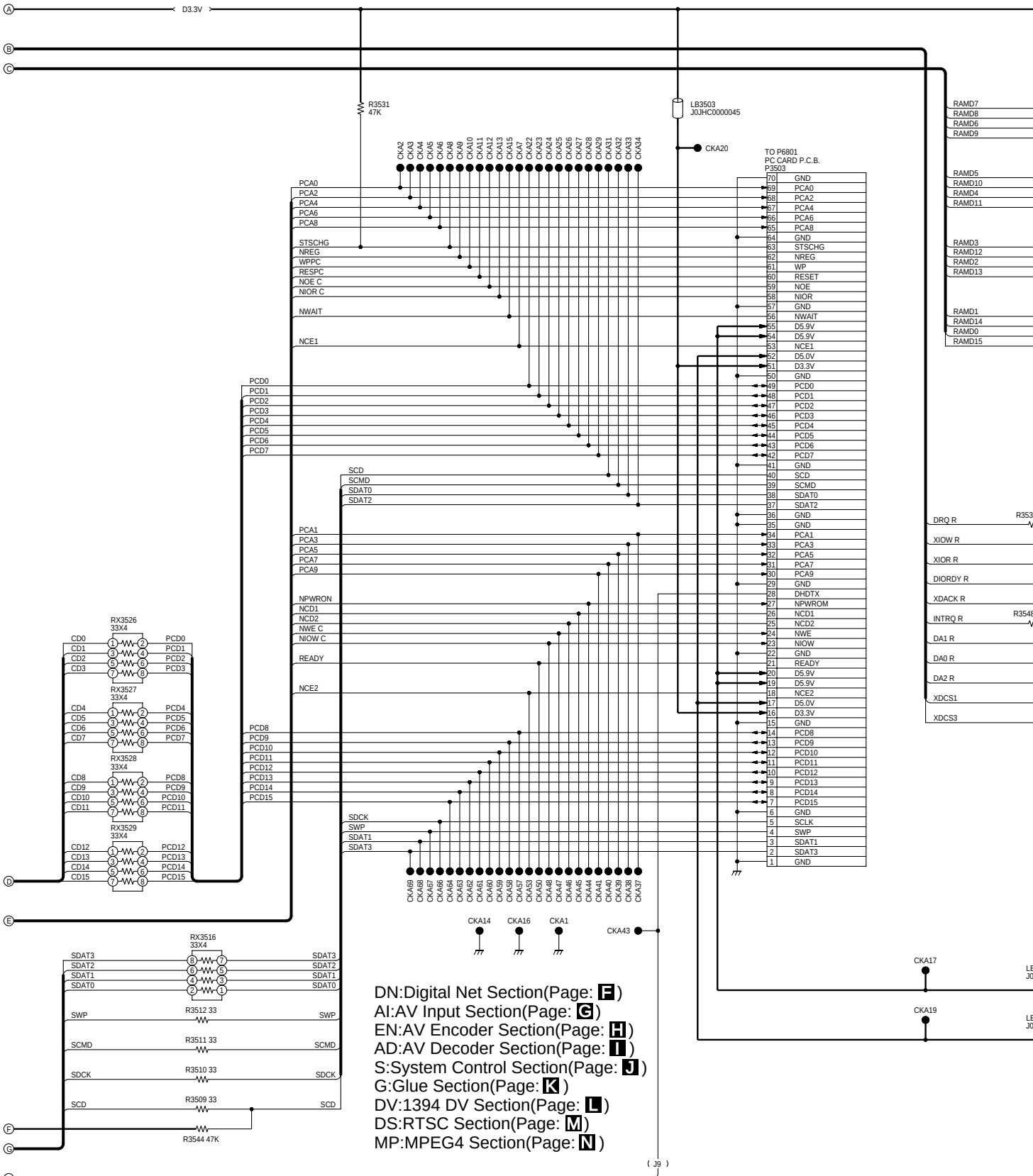


DMR-E100H P/PC/PL
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)



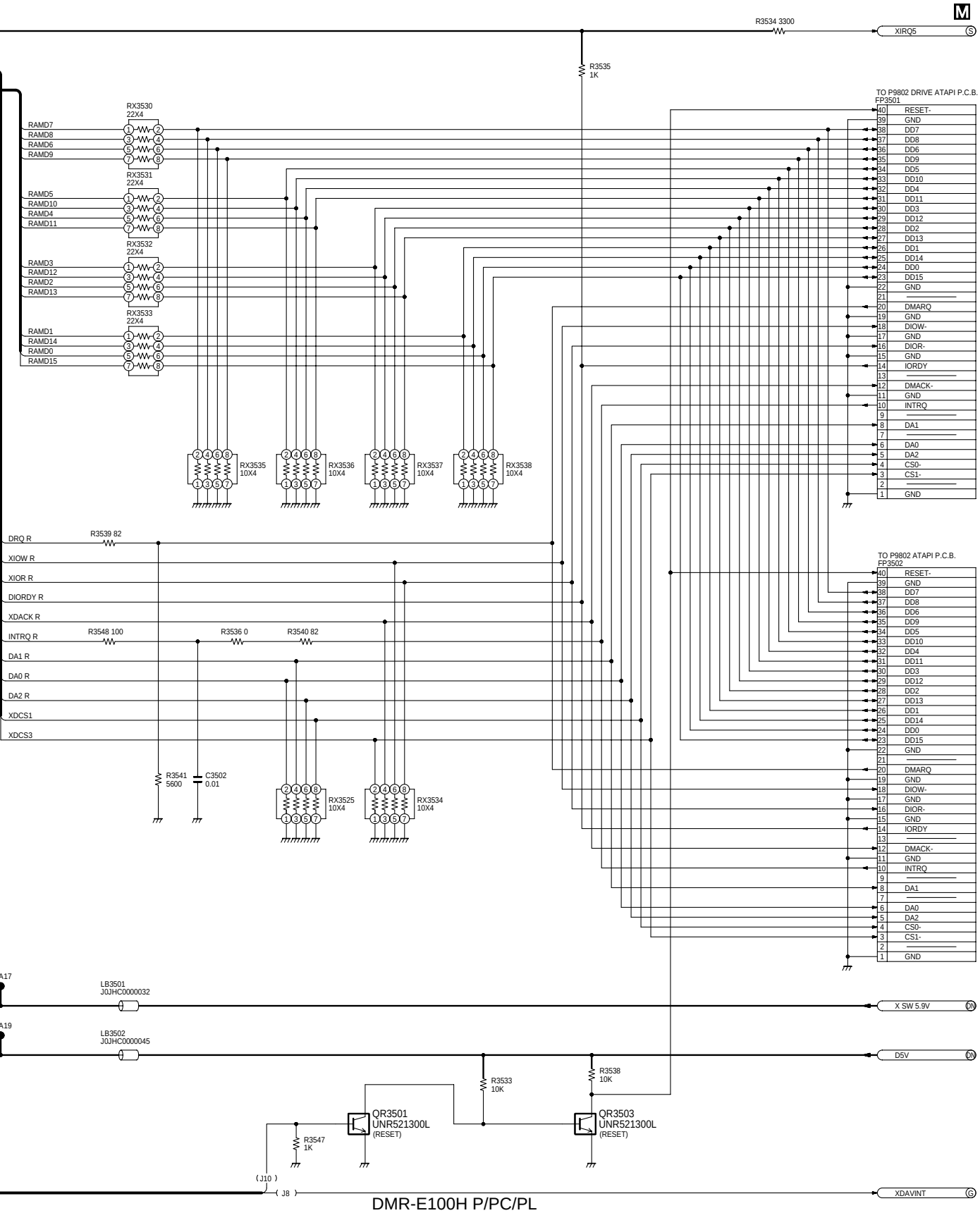
DMR-E100H P/PC/PL
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

18 | 19 | 20 | 21 | 22 | 23 | 24



DMR-E100H P/PC/PL
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

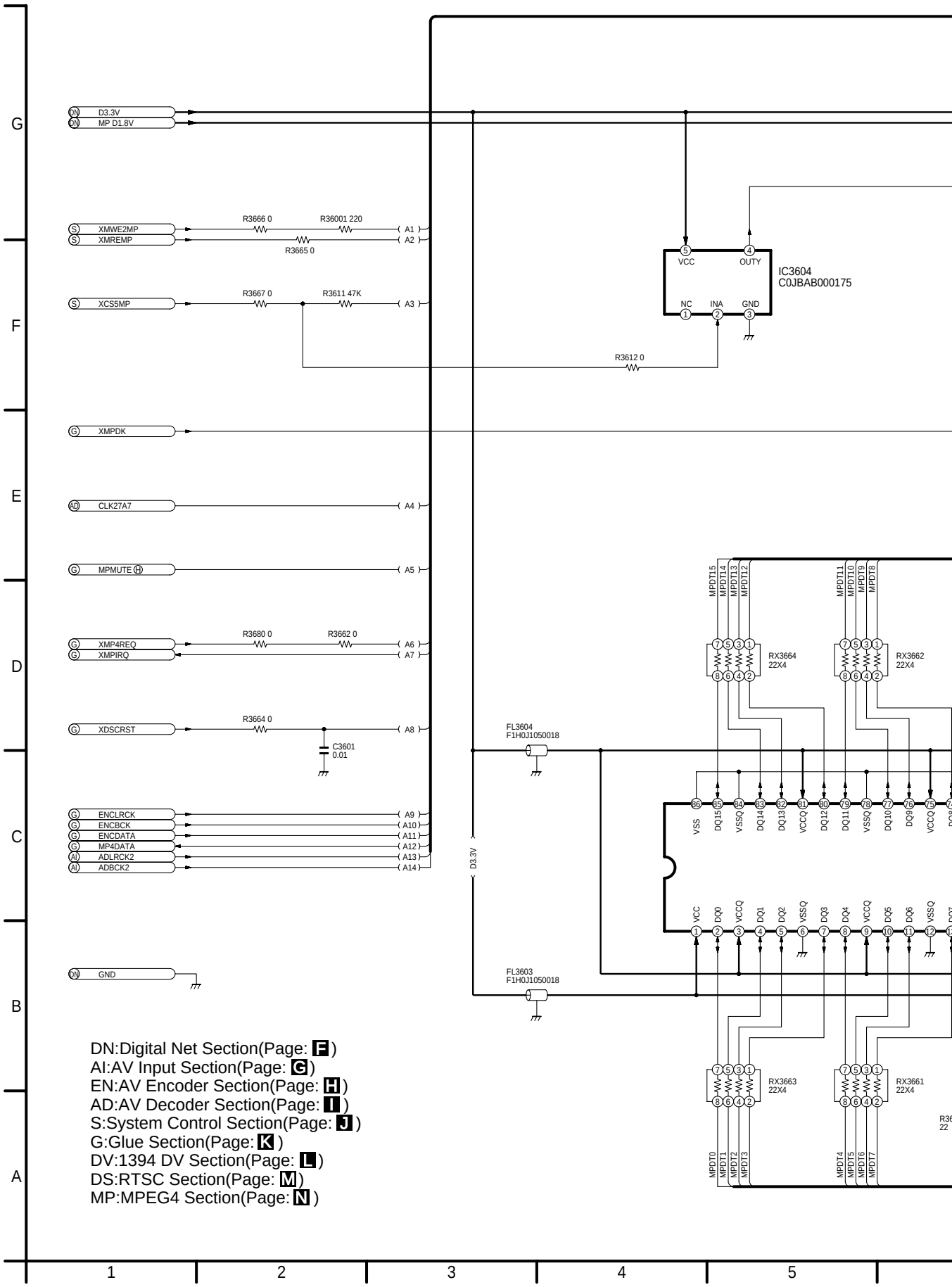
25 26 27 28 29 30



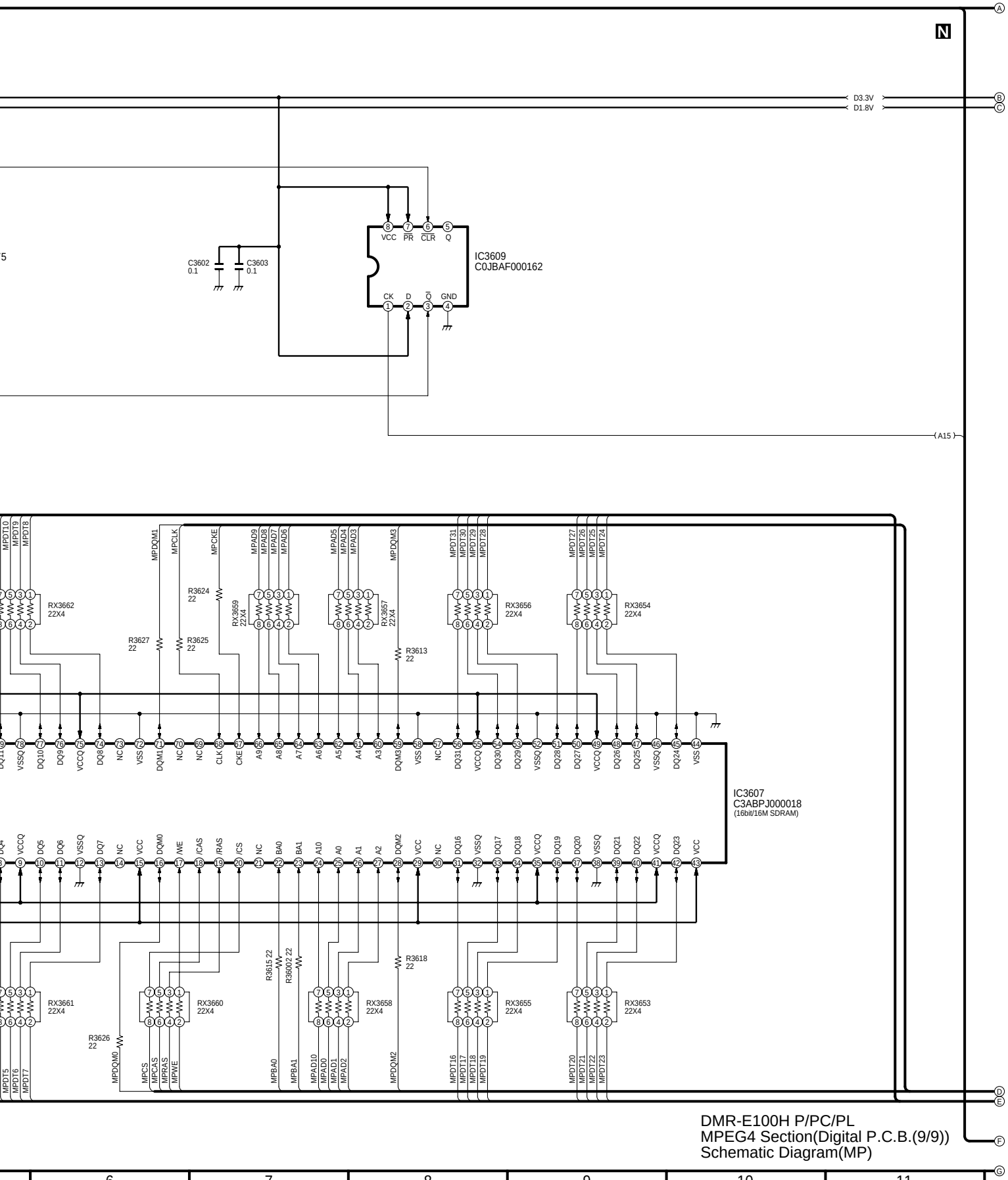
DMR-E100H P/PC/PL
Real Time Stream(RTSC) Section(Digital P.C.B.(8/9)) Schematic Diagram(DS)

31	32	33	34	35	36

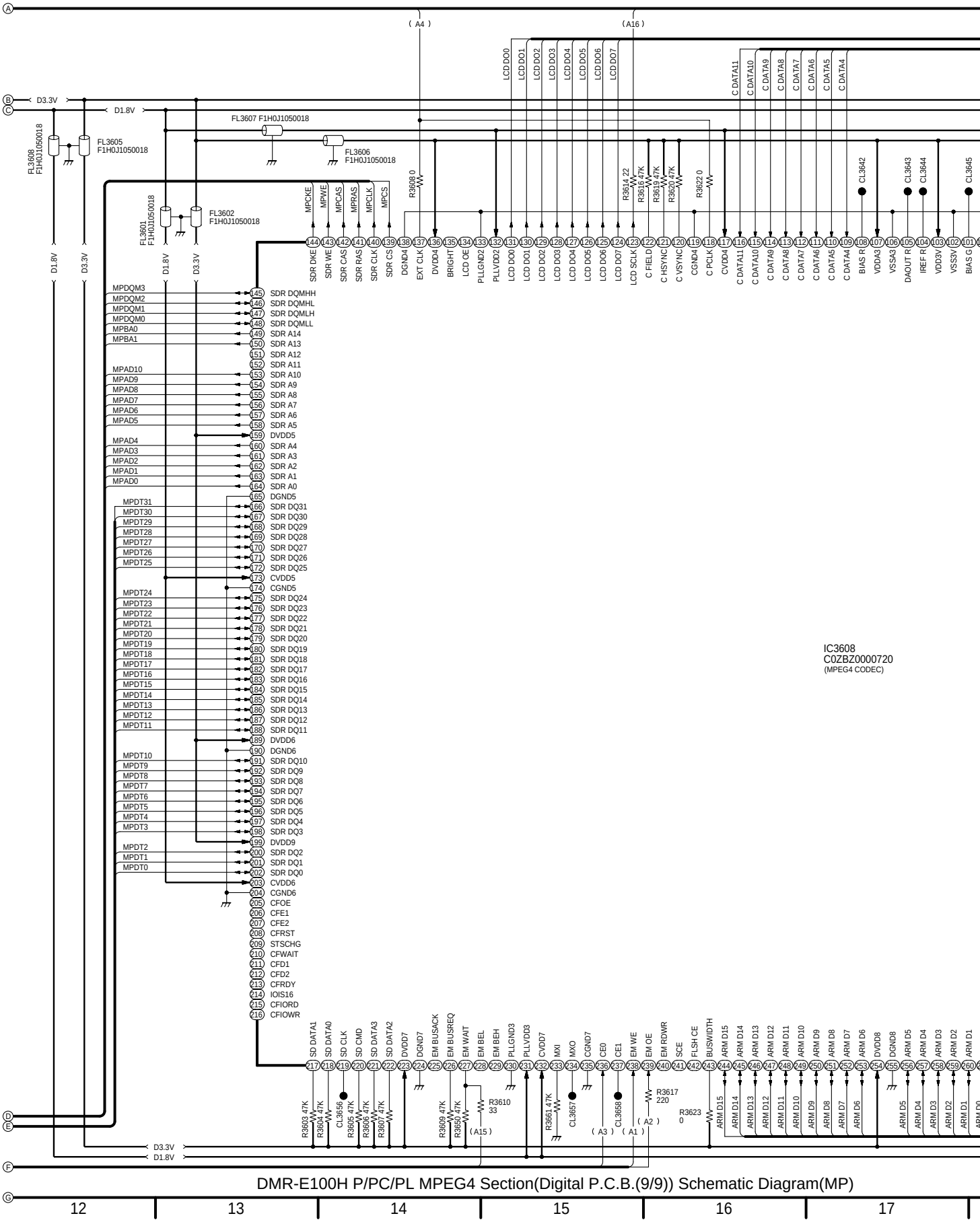
14.16. MPEG4 Schematic Diagram (MP) (Digital P.C.B. 9/9)



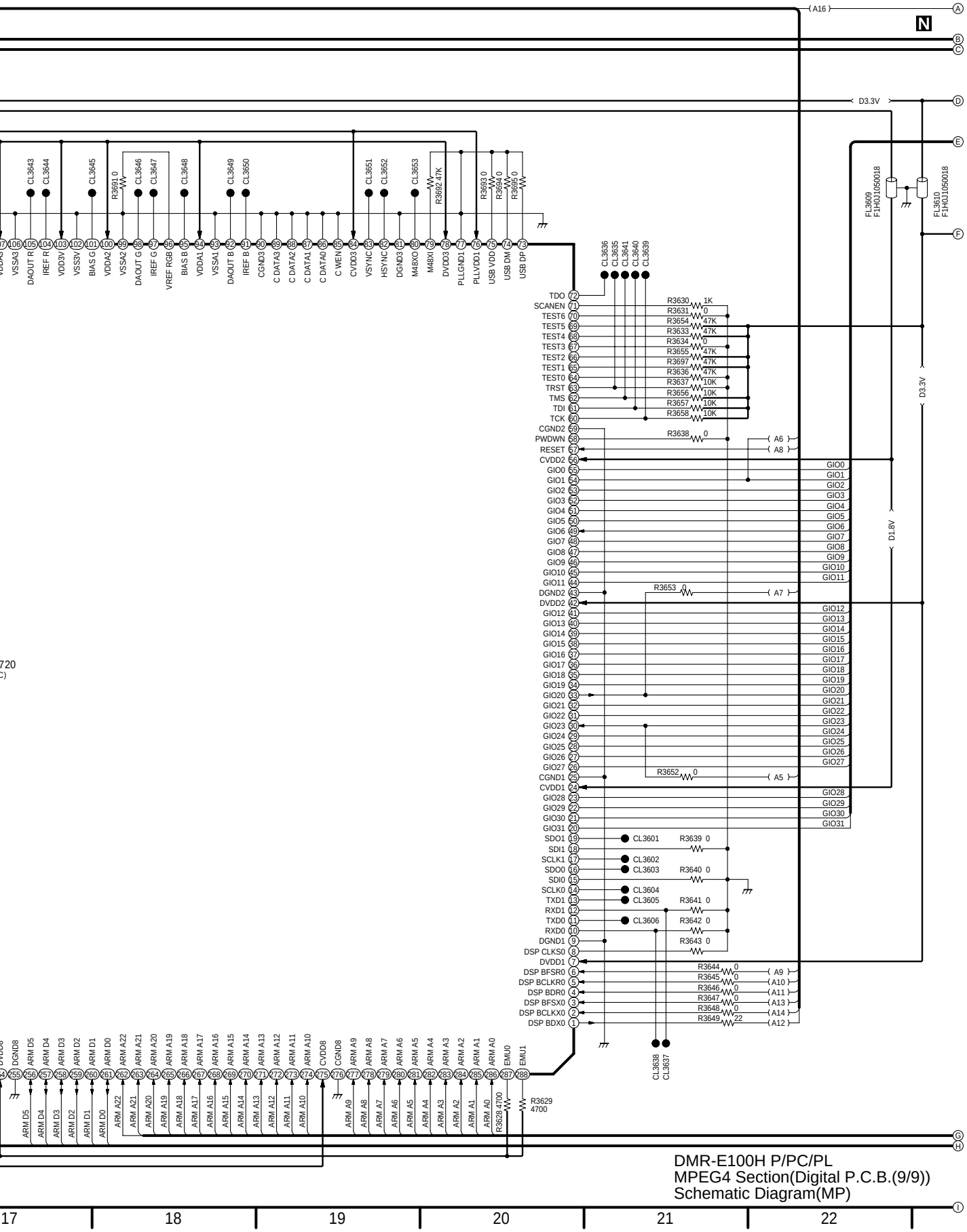
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)
G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)



DMR-E100H P/PC/PL
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)



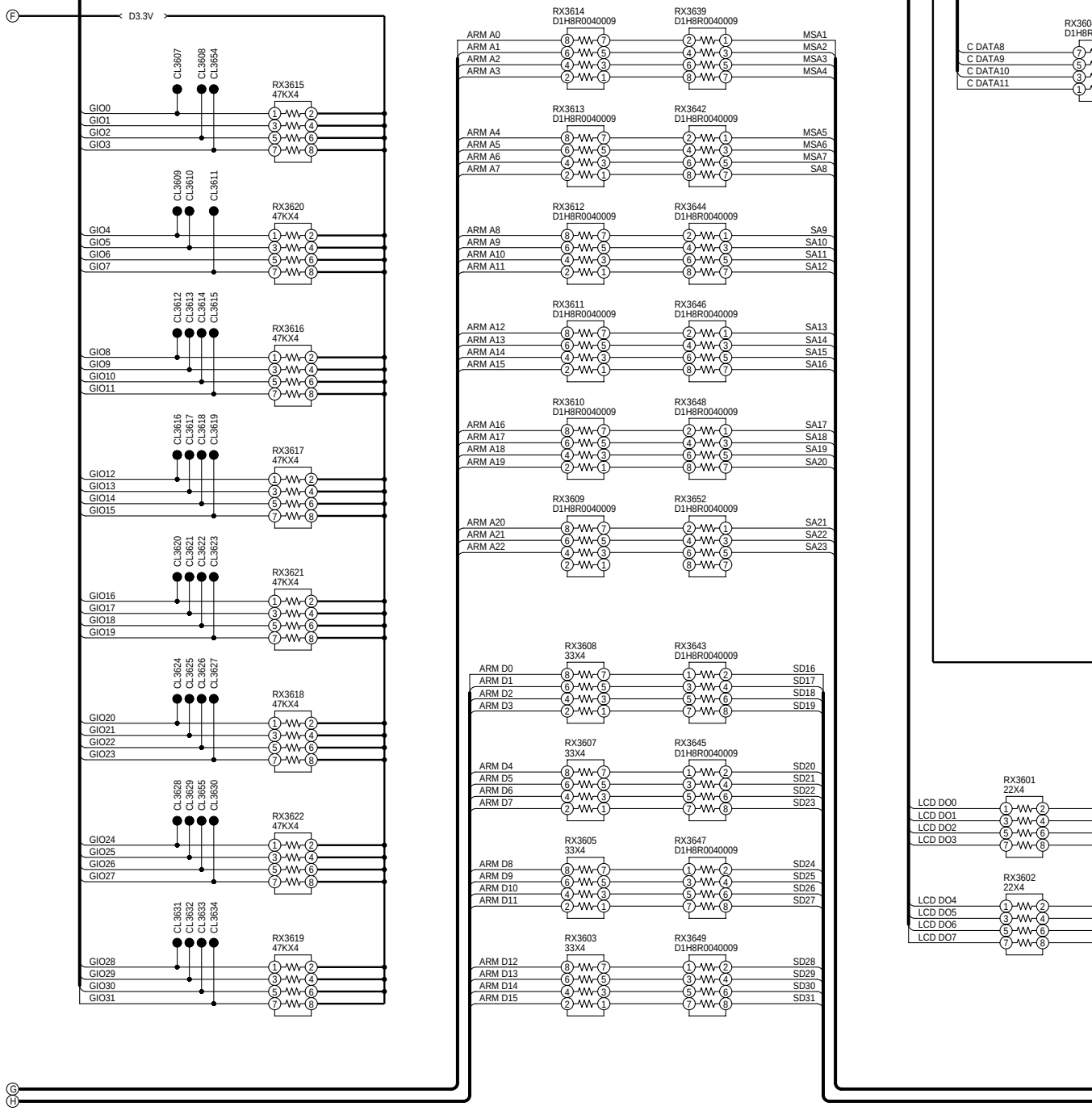
DMR-E100H P/PC/PL MPEG4 Section(Digital P.C.B.(9/9)) Schematic Diagram(MP)



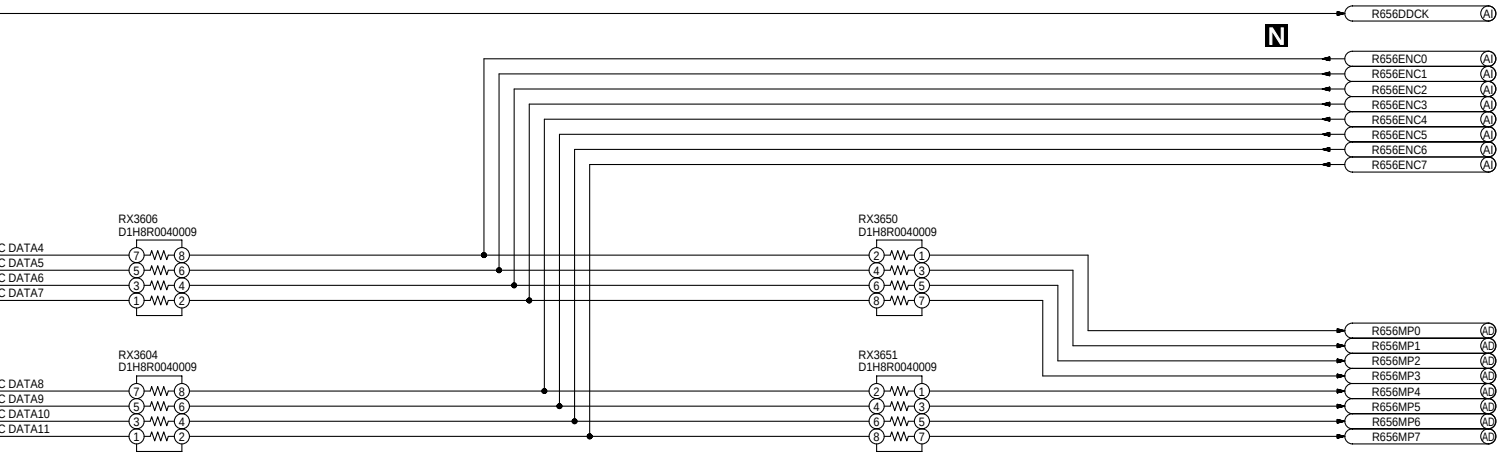
DMR-E100H P/PC/PL
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

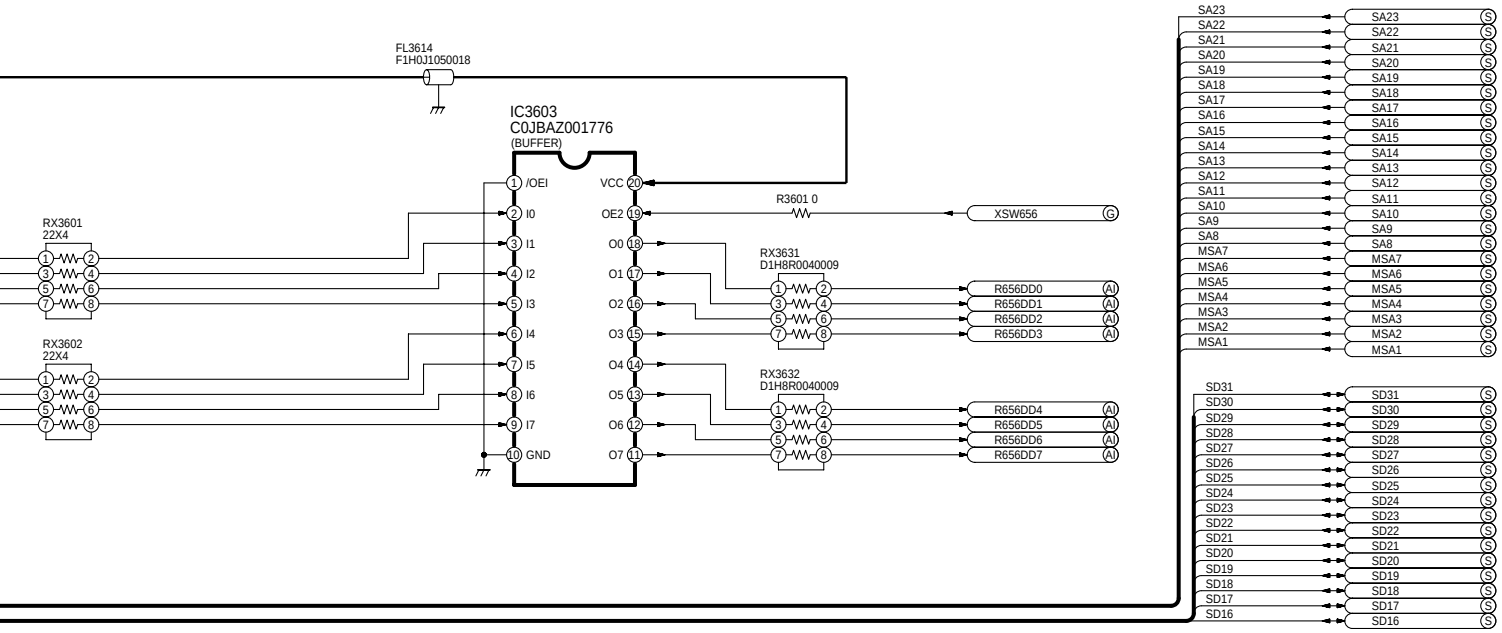
DN:Digital Net Section(Page: F)
AI:AV Input Section(Page: G)
EN:AV Encoder Section(Page: H)
AD:AV Decoder Section(Page: I)
S:System Control Section(Page: J)

G:Glue Section(Page: K)
DV:1394 DV Section(Page: L)
DS:RTSC Section(Page: M)
MP:MPEG4 Section(Page: N)



DMR-E100H P/PC/PL
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

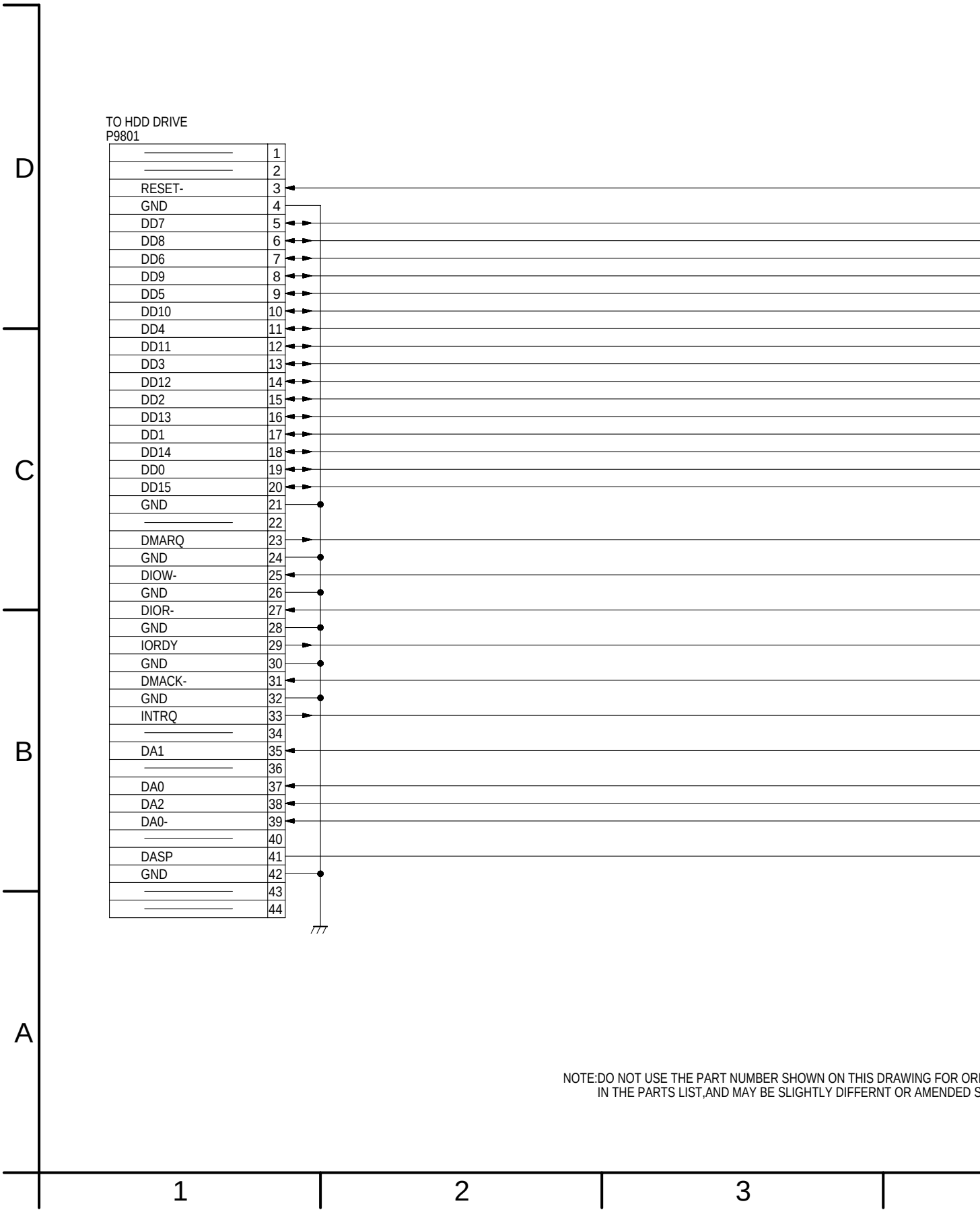




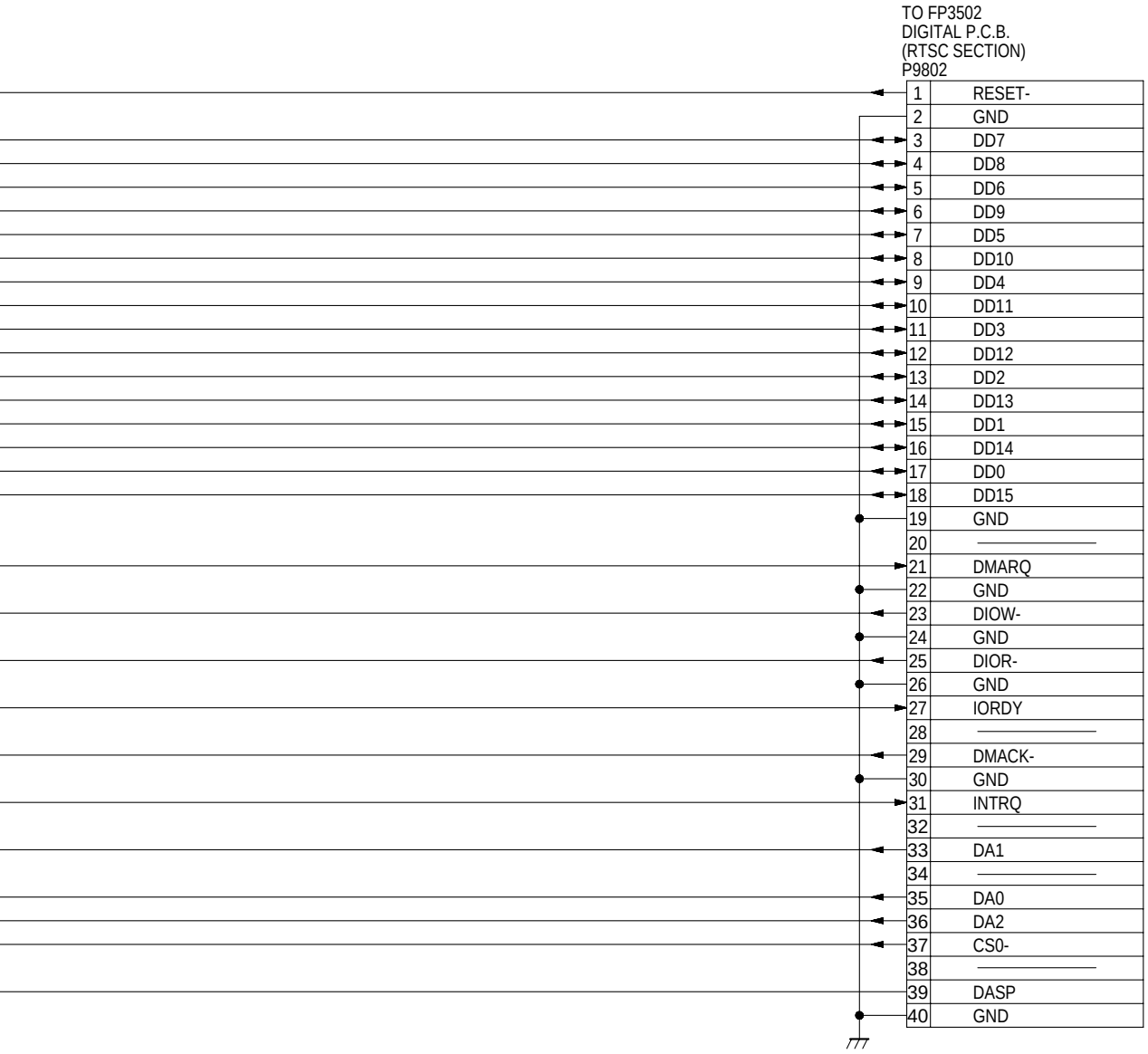
DMR-E100H P/PC/PL
MPEG4 Section(Digital P.C.B.(9/9))
Schematic Diagram(MP)

28 | 29 | 30 | 31 | 32 | 33

14.17. ATAPI Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORI
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED S

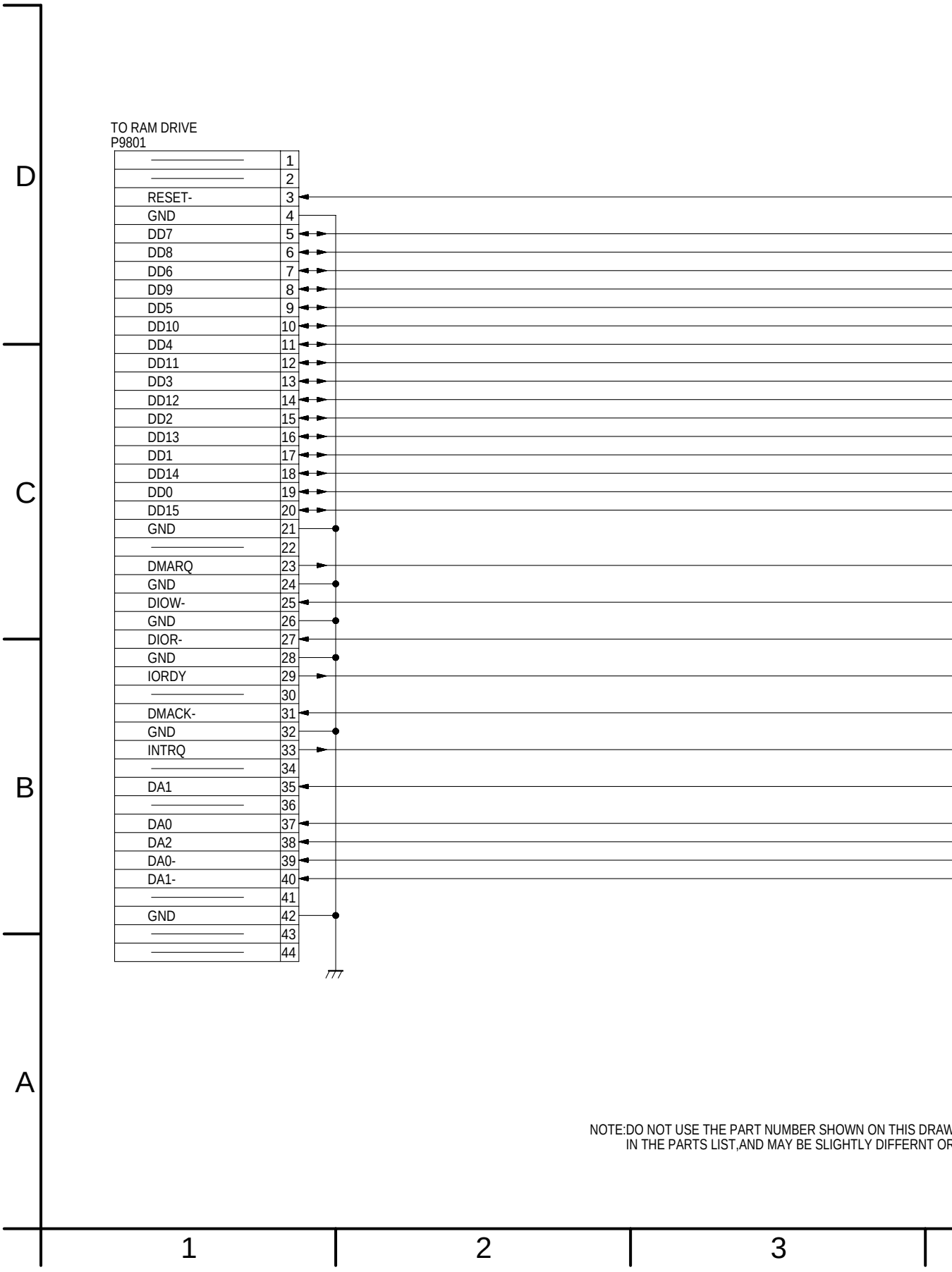


DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
NT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

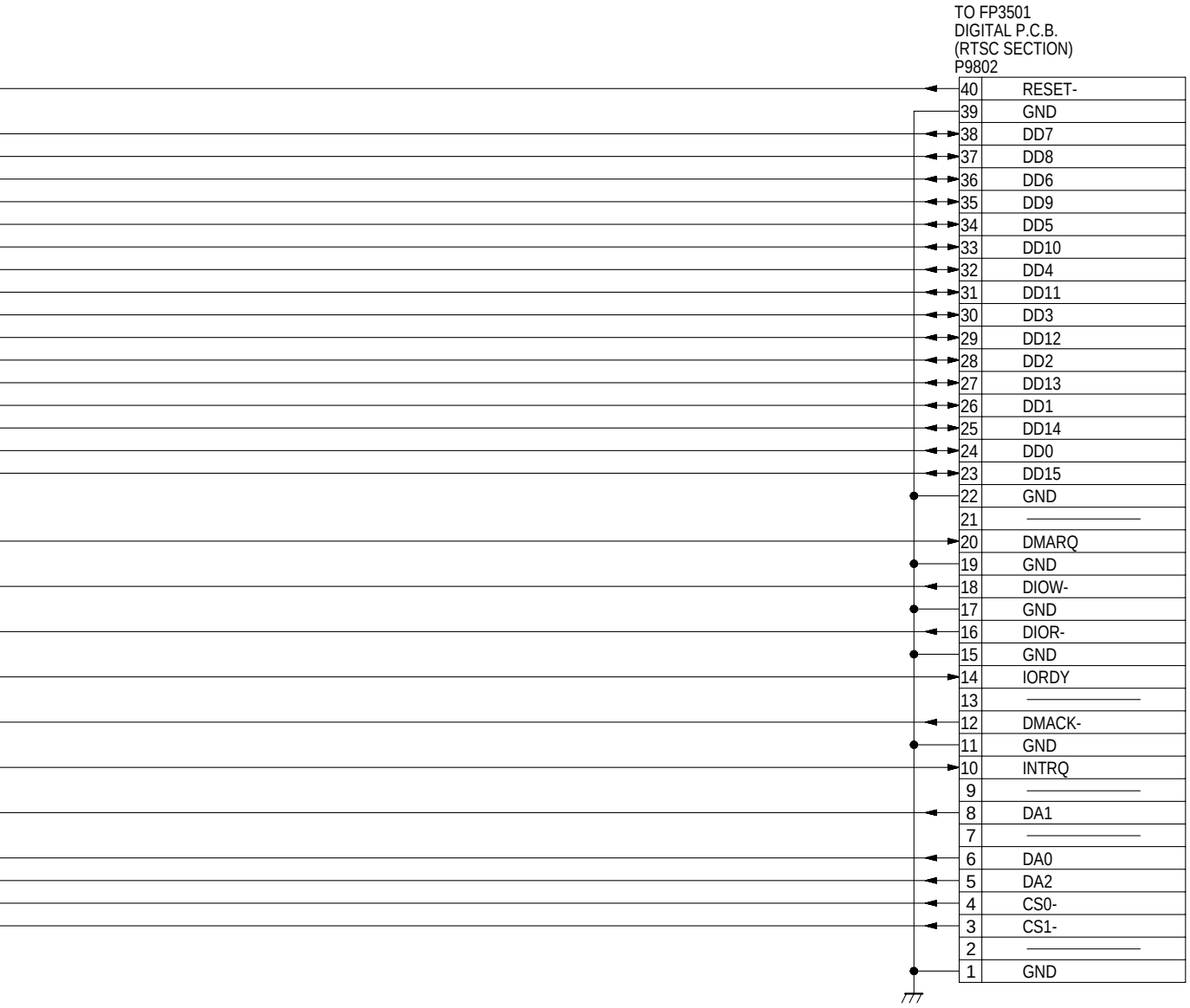
DMR-E100H P/PC/PL
ATAPI Schematic Diagram

4 5 6

14.18. Drive ATAPI Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAW
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR

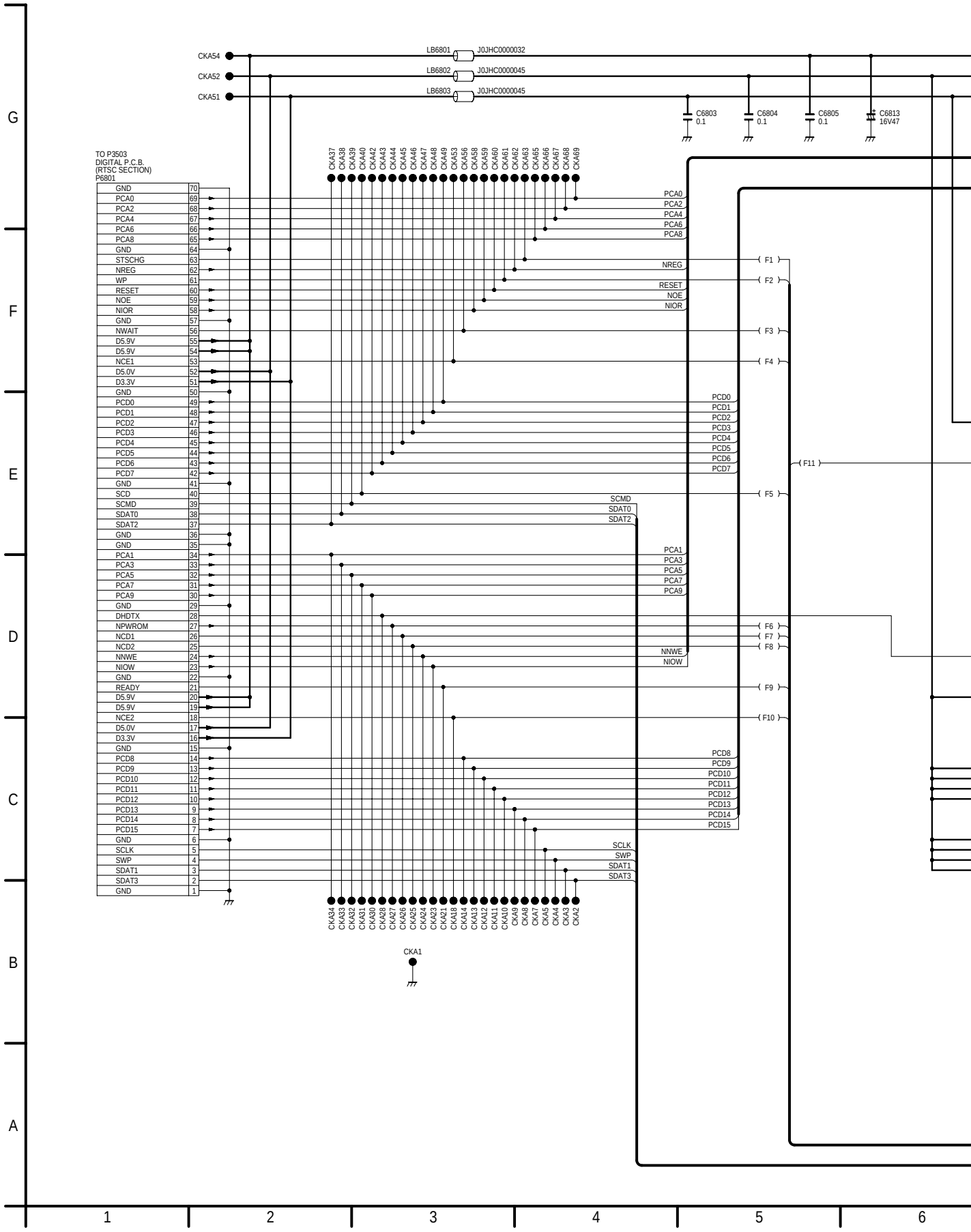


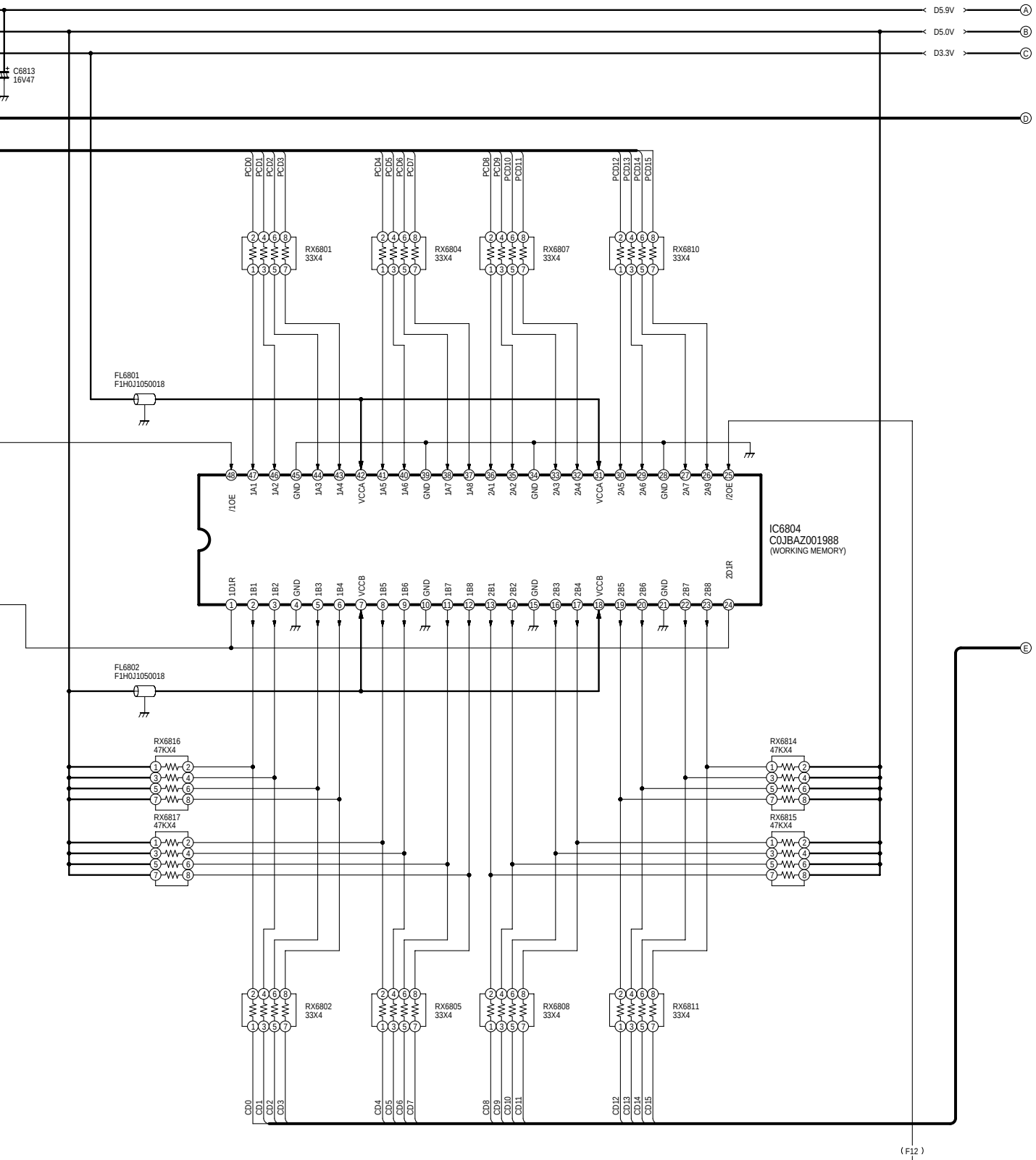
WN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN
HTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
DRIVE ATAPI Schematic Diagram

4 5 6

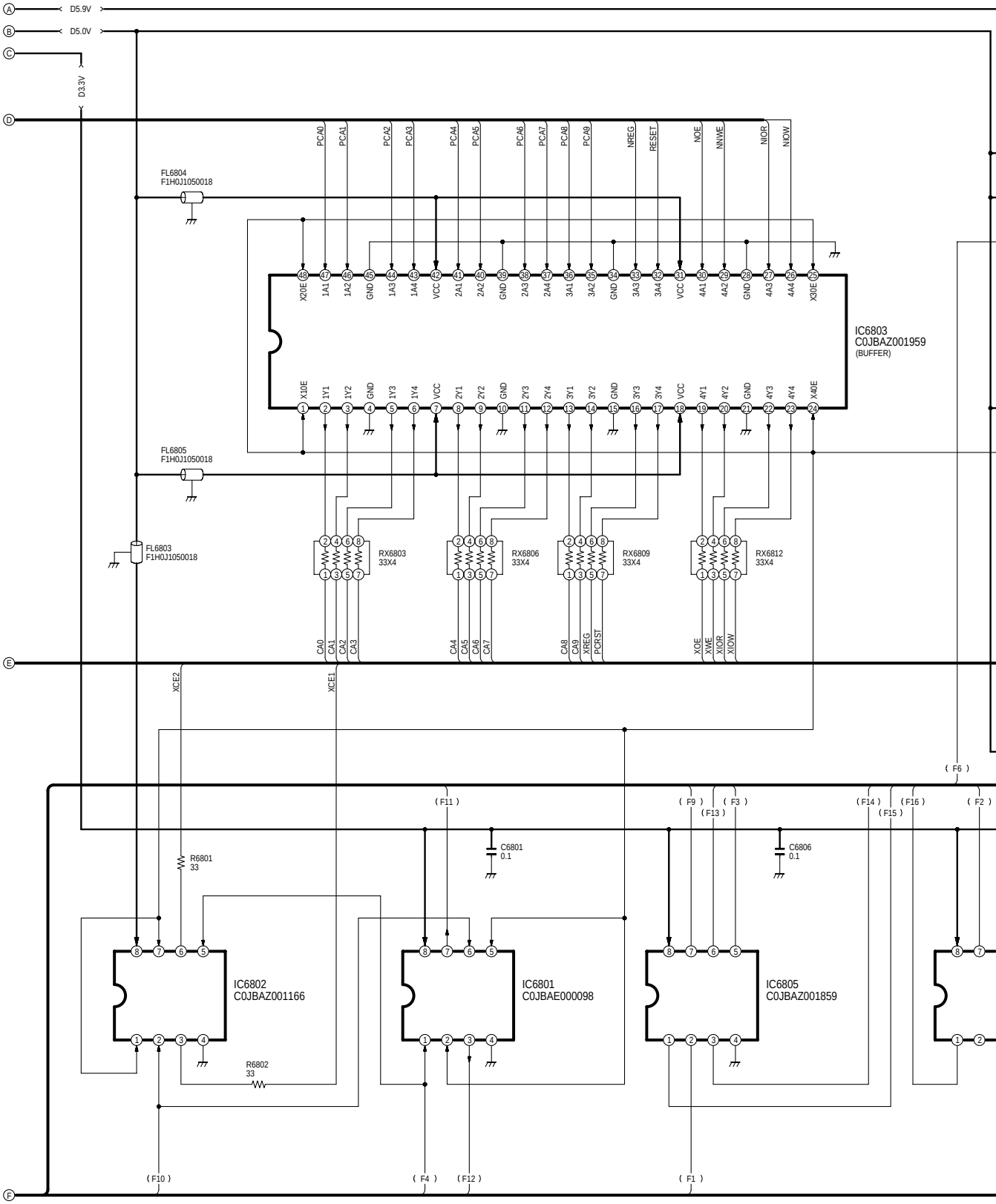
14.19. SD & PC Card Schematic Diagram



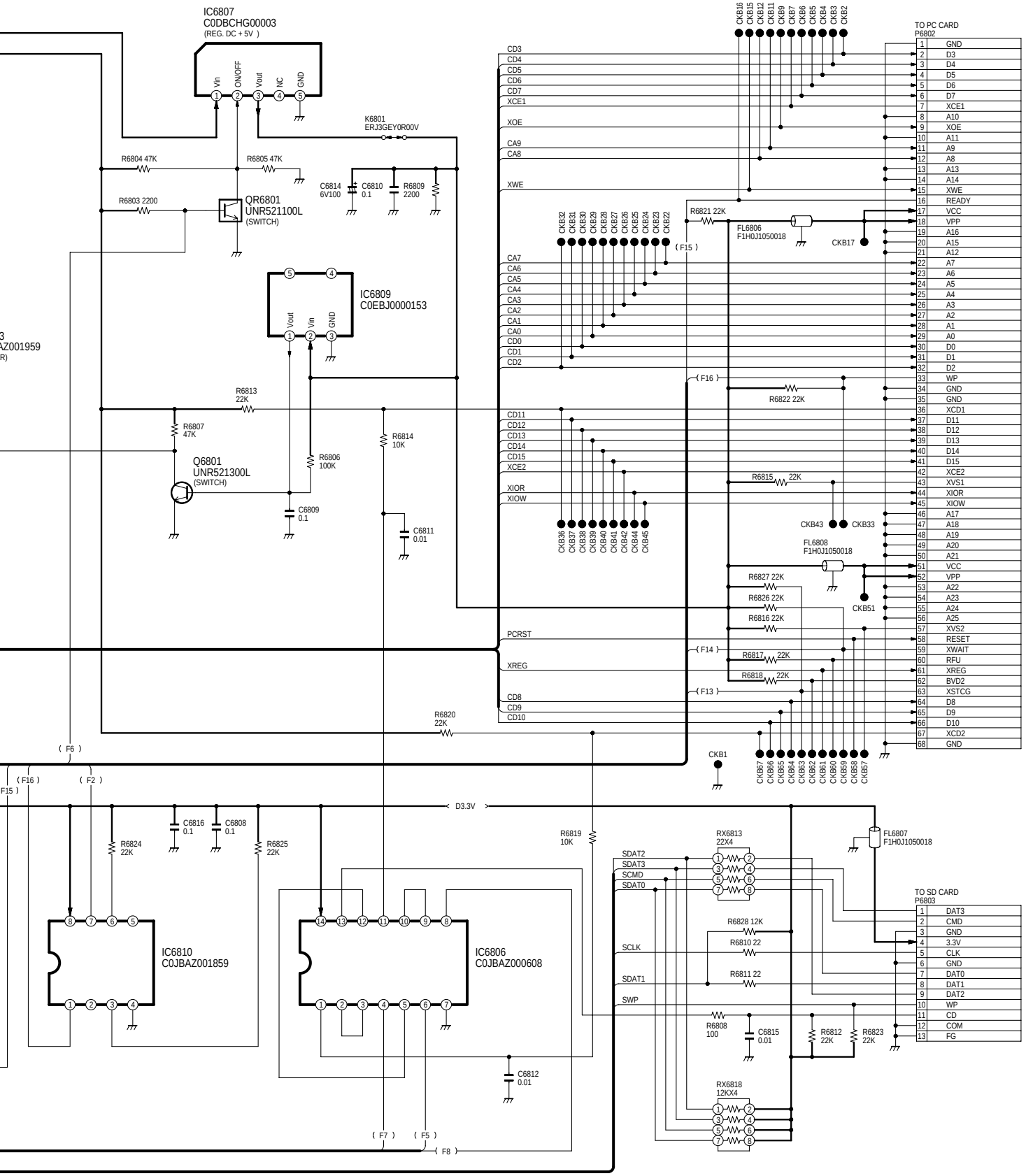


DMR-E100H P/PC/PL
SD & PC Card Schematic Diagram

6 | 7 | 8 | 9 | 10 | 11



DMR-E100H P/PC/PL
SD & PC Card Schematic Diagram

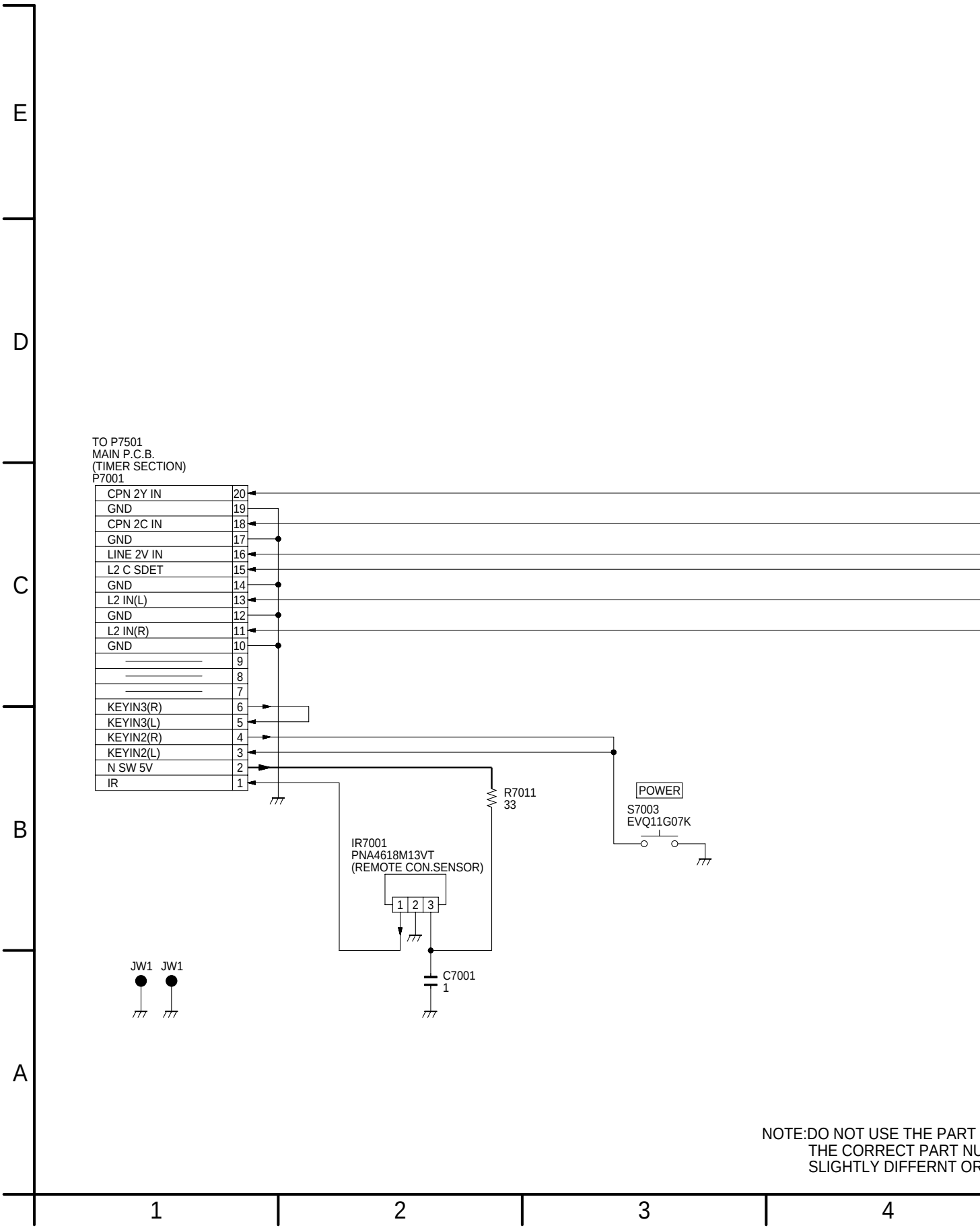


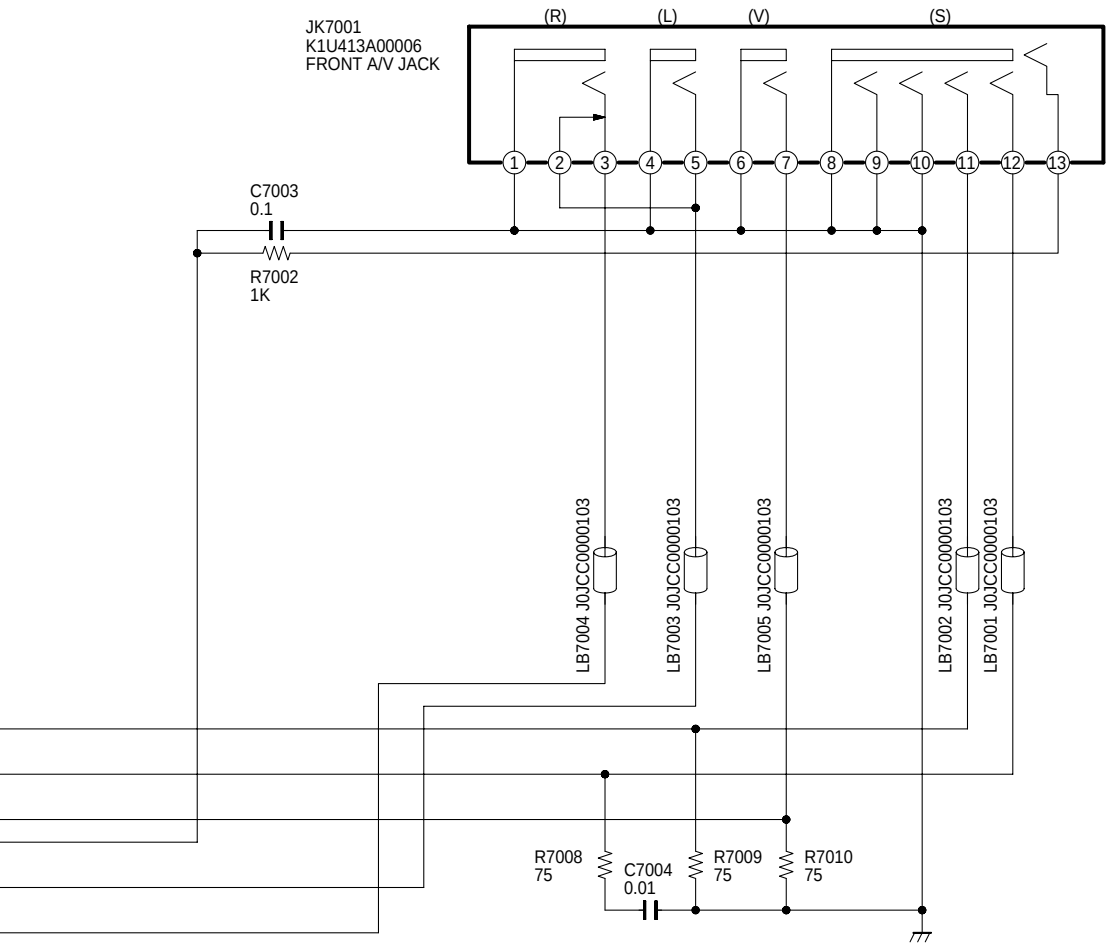
Diagram

DMR-E100H P/PC/PL
SD & PC Card Schematic Diagram

17	18	19	20	21	22

14.20. Front (L) Schematic Diagram



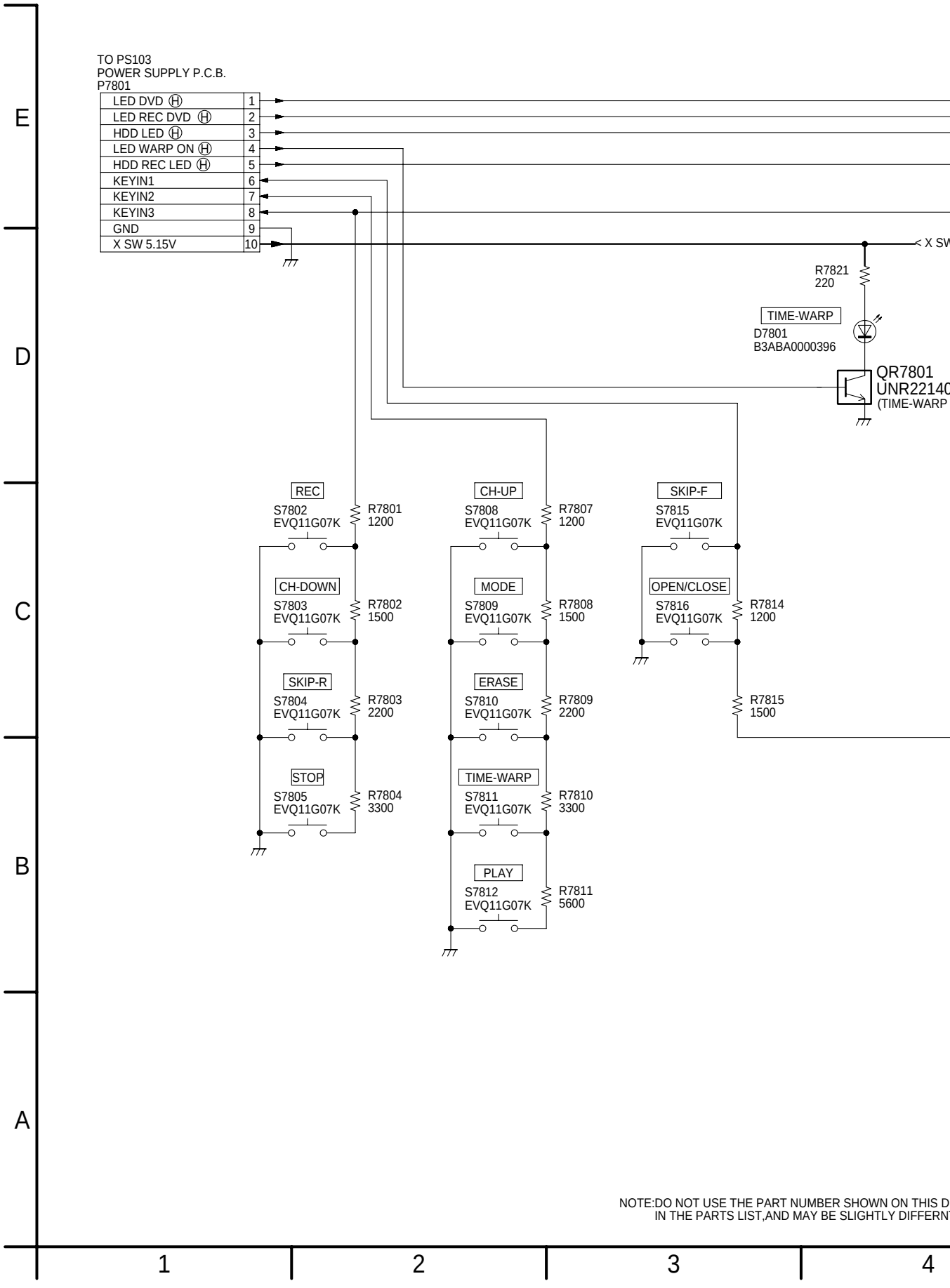


USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
RECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE
DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

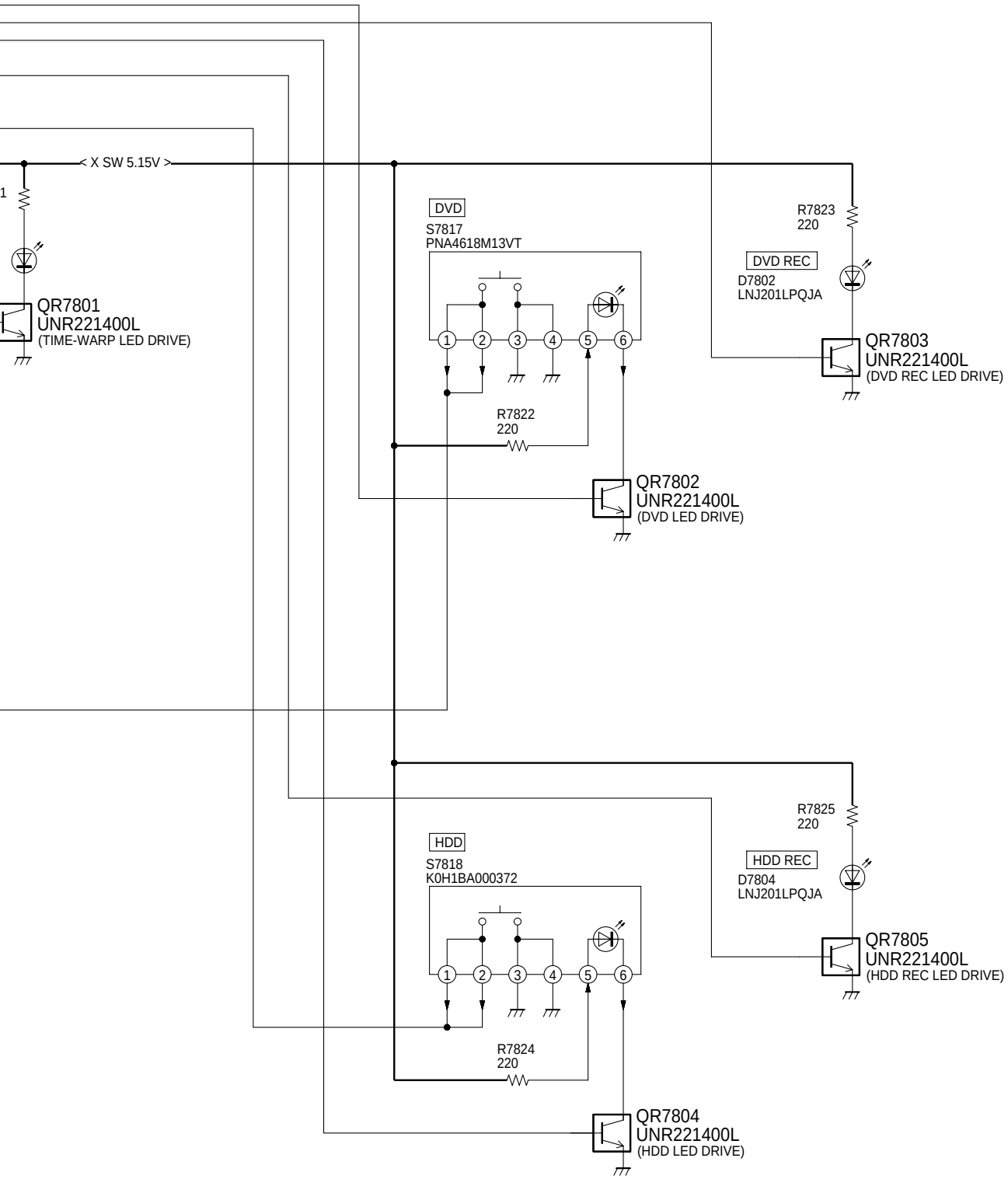
DMR-E100H P/PC/PL
Front(L) Schematic Diagram

4 | 5 | 6 | 7

14.21. Front (R) Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS D
IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERN



SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E100H P/PC/PL
Front(R) Schematic Diagram

4 | 5 | 6 | 7